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ABSTRACTS

WILDLIFE REVIEW

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WILDLIFE REVIEW

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NATURAL RESOURCES & CLIMATE

Coimbra-Filho, Adelmar F. SITUACÃO MUNDIAL DE RECURSOS FAUNÍSTICOS NA FAIXA INTERTROPICAL. [WORLD-WIDE SITUATION OF FAUNISTIC RESOURCES IN THE INTERTROPICAL ZONE.] *Brasil Florestal* 5(17): 12-37, 24 figs. Jan.-Mar. 1974. In Portuguese. *WR 153: 2*
[Inst. Conserv. Nat., Guanabara, Brazil]

Joseph, Charles Romney. PUERTO RICO'S FISH & WILDLIFE RESOURCES. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 63. p. 29-30. 1973. *WR 153: 2*
[Puerto Rico Dep. Nat. Resour., Box 11488, San Juan 00910]

Waller, R. H. OBSERVATIONS ON THE WILDLIFE SANCTUARIES OF INDIA. *J. Bombay Nat. Hist. Soc.* 69(3): 574-590. 1972. [From Biol. Abstr. 57(11), 1974.] *WR 153: 2*

SOILS

Harmon, Keith W., and Maynard M. Nelson. WILDLIFE AND SOIL CONSIDERATIONS IN LAND RETIREMENT PROGRAMS. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 62. p. 49-56. 1972. *WR 153: 2*
[Wildl. Management Inst., Fargo, N. Dak.]

Hudelson, G. W., and others. SOIL SURVEY OF LOGAN COUNTY, ILLINOIS. *U.S. Dep. Agric. Soil Conserv. Serv. Soil Surv.* i + 99 p., 22 figs. + single-fold maps based on aerial photos and bound in. May 1974. For sale by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 2*

King, John M., and John W. Turpin. SOIL SURVEY OF TRANSYLVANIA COUNTY, NORTH CAROLINA. *U.S. Dep. Agric. Soil Conserv. Serv. Soil Surv.* i + 71 p., 11 figs. + single-fold maps based on aerial photos and bound in. Jan. 1974. For sale by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 2*

McEwen, Harry F., and Jack Crout. SOIL SURVEY OF WHARTON COUNTY, TEXAS. *U.S. Dep. Agric. Soil Conserv. Serv. Soil Surv.* i + 43 p., 13 figs. + single-fold maps based on aerial photos and bound in. Mar. 1974. For sale by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 2*

Seevers, Vernon C., and Robert S. Pollock. SOIL SURVEY OF POLK COUNTY, NEBRASKA. *U.S. Dep. Agric. Soil Conserv. Serv. Soil Surv.* i + 80 p., 23 figs. single-fold maps based on aerial photos and bound in. Apr. 1974. For sale by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 2*

SOILS--Continued

Turner, August J., and Robert E. Fox. SOIL SURVEY OF TERRELL COUNTY, TEXAS. *U.S. Dep. Agric. Soil Conserv. Serv. Soil Surv.* i + 35 p., 23 figs. + single-fold maps based on aerial photos and bound in. Mar. 1974. For sale by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 3*

Wilkes, Robert L., and others. SOIL SURVEY OF BRYAN AND CHATHAM COUNTIES, GEORGIA. *U.S. Dep. Agric. Soil Conserv. Soil Surv.* i + 71 p., 15 figs. + single-fold maps based on aerial photos and bound in. Mar. 1974. For sale by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 3*

Williams, Jack C., and others. SOIL SURVEY OF HEMPHILL COUNTY, TEXAS. *U.S. Dep. Agric. Soil Conserv. Serv. Soil Surv.* i + 55 p., 14 figs. + single-fold maps based on aerial photos and bound in. Mar. 1974. For sale by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 3*

GENERAL CONSERVATION

Hus, Savni. NATURSCHUTZ, WILDSCHUTZ UND JAGDWESEN IN DER TUERKEI. [NATURAL PROTECTION, WILDLIFE PROTECTION AND HUNTING IN TURKEY.] *Bonn. Zool. Beitr.* 24 (3): 227-232. 1973. [From Biol. Abstr. 57(10), 1974. In German.] *WR 153: 3*

Schmalz, K. L. NATURSCHUTZTAETIGKEIT IM KANTON BERN, 1971. [ACTIVITY IN NATURE CONSERVATION AREA IN BERN CANTON IN 1971.] *Mitt. Naturforsch. Ges. Bern* 29. p. 65-90, illus. 1972. [From Biol. Abstr. 57(8), 1974. In German.] *WR 153: 3*
[Forstdir. Kantons Bern, Bern, Switzerland]

CONSERVATION EDUCATION

Wesley, D. J. DEVELOPMENT AND EVALUATION OF AN ENVIRONMENTAL EDUCATION PROGRAM FOR PUBLIC SCHOOL USE, CRAIG COUNTY, VIRGINIA. *M.S. thesis, Va. Polytech. Inst.* 94 p. 1973. *WR 153: 3*
Courtesy/ Burd S. McGinnes.

WILDLIFE--BIOTAS, ECOLOGY, NATURAL HISTORY

Dunbar, M. J. STABILITY AND FRAGILITY IN ARCTIC ECOSYSTEMS. *Arctic* 26(3): 179-185. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 3*
[McGill Univ., Montreal, Quebec, Canada]

Garrido, Orlando H. ANFIBIOS, REPTILES Y AVES DE CAYO REAL (CAYO DE SAN FELIPE), CUBA. [AMPHIBIANS, REPTILES AND BIRDS OF CAYO REAL (CAYOS DE SAN FELIPE), CUBA.] *Ser. Poeyana Inst. Zool. Acad. Cienc. Cuba* 119. p. 1-50. 1973. [From Biol. Abstr. 57(8), 1974. In Spanish with English summ.] *WR 153: 3*
[Acad. Cienc., Havana, Cuba] "Including *Centurus superciliaris sanfelipensis, Contopus caribaeus sanfelipensis, Vireo gundlachii sanfelipensis,* and *Capromys sanfelipensis.*"

Munteanu, Dan. FAUNA DE VERTEBRATE A MASIVULUI CEAHLĂU. [THE VERTEBRATES OF THE CEAHLĂU MOUNTAIN.] *Ocrotirea Nat.* 17(2): 165-175, 9 figs. 1973. In Romanian with English summ. *WR 153: 3*
In the Romanian Eastern Carpathians.

Ruchet, Daniel. DEVELOPPEMENT DE LA FAUNE DANS LE DISTRICT FRANC DIABLERETS-MUVERAN. [DEVELOPMENT OF THE FAUNA IN THE FREE DISTRICT OF DIABLERETS-MUVERAN.] *Mem. Soc. Vaudoise Sci. Nat.* 15(3): 147-156. 1973. [From Biol. Abstr. 57(10), 1974. In French.] *WR 153: 3*

WILDLIFE--BIOTAS, ECOLOGY, NATURAL HISTORY--Continued

Sarmiento, Guillermo. PREMISAS Y PROPOSICIONES PARA EL DESARROLLO DE LA ECOLOGIA EN EL TROPICO AMERICANO. [SOME PREMISES AND PROPOSITIONS FOR THE DEVELOPMENT OF ECOLOGY IN TROPICAL AMERICA.] *Acta Cient. Venez.* 23(6): 197-202. 1972. [From Biol. Abstr. 57(10), 1974. In Spanish with English summ.] *WR 153: 4*
[Univ. Los Andes, Merida, Venezuela]

Scharf, W. C. BIRDS AND LAND VERTEBRATES OF SOUTH MANITOU ISLAND. *Jack-Pine Warbler* 51(1): 2-19, illus. Mar. 1973. *WR 153: 4*
[Northwestern Mich. Coll., Traverse City 49684] Five amphibian, 5 reptile, 179 bird, and 10 mammal species are recorded from the island.

Simpson, K. N. G. AMPHIBIANS, REPTILES AND MAMMALS OF THE MURRAY RIVER REGION BETWEEN MILDURA AND RENMARK, AUSTRALIA. *Mem. Natl. Mus. Victoria* 34. p. 275-279, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 4*
[Monash Univ., Clayton, Victoria, Australia]

WILDLIFE--NATURAL AREAS & REFUGES

Wunz, Jerry. WHAT'S HAPPENED TO GAME REFUGES? *Pa. Game News* 45(5): 29-31, illus. May 1974. *WR 153: 4*
[Pa. Game Commission, Harrisburg 17120] Refuges are no longer necessary in Pennsylvania for deer or turkeys.

WILDLIFE--NATURE PROTECTION & RARE & EXTINCT SPECIES

Coimbra-Filho, Adelmar F., Antonio D. Aldrighi, and Henrique Ferreira Martins. NOVA CONTRIBUIÇÃO AO RESTABELECIMENTO DA FAUNA DO PARQUE NACIONAL DA TIJUCA, GB, BRASIL. [NEW CONTRIBUTIONS TO THE RE-ESTABLISHMENT OF FAUNA OF THE NATIONAL PARK OF TIJUCA GUANABARA, BRAZIL.] *Brasil Florestal* 4(16): 7-25, 12 figs. Oct.-Dec. 1973. In Portuguese. *WR 153: 4*
[Inst. Conserv. Nat., Guanabara, Brazil] Includes mammals, birds, and reptiles.

Frye, O. E., Jr. THREATENED SPECIES OF FLORIDA WILDLIFE. *Fla. Wildl.* 27(12): 15-18, illus. May 1974. *WR 153: 4*
[Fla. Game & Fresh Water Fish Commission, Tallahassee 32304] Includes a current list of Florida fish, reptiles, amphibians, birds, and mammals that are threatened.

Mohler, Levi L. THREATENED WILDLIFE OF IDAHO. *Idaho Wildl. Rev.* 26(5): 3-5, illus. Mar.-Apr. 1974. *WR 153: 4*
The threatened species of Idaho are listed in addition to the endangered species (American peregrin falcon and northern Rocky Mountain wolf).

Russ, W. P. THE RARE AND ENDANGERED TERRESTRIAL VERTEBRATES OF VIRGINIA. *M.S. thesis, Va. Polytech. Inst.* 338 p. 1973. *WR 153: 4*
Courtesy/ Burd S. McGinnes.

Stephens, Jack. KANAHA POND: VITAL HABITAT FOR HAWAII'S ENDANGERED COOT AND STILT. *Natl. Parks Conserv. Mag.* 48(4): 10-13, illus. Apr. 1974. *WR 153: 4*
One of a series of articles on endangered species. The key habitat for the endangered Hawaiian coot and Hawaiian stilt is itself endangered by a proposed sewage treatment plant.

WILDLIFE--MORPHOLOGY, PHYSIOLOGY, BEHAVIOR, MIGRATION

Berry, C. L., Jocelyn Germain, and Patricia Lovell. COMPARISON OF AORTIC LAMELLAR UNIT STRUCTURE IN BIRDS AND MAMMALS. *Atherosclerosis* 19(1): 47-59, illus. 1974. [From Biol. Abstr. 57(10), 1974.] *WR 153: 5*
[Guy's Hosp. Med. Sch., London SE1 9RT, England]

Hildwein, G. METABOLISME ENERGETIQUE DE QUELQUES MAMMIFERES ET OISEAUX DE LA FORET EQUATORIALE: I. CONDITIONS CLIMATIQUES, MATERIEL ET METHODES. [ENERGY METABOLISM OF SOME MAMMALS AND BIRDS OF AN EQUATORIAL FOREST: I. CLIMATIC CONDITIONS, MATERIAL AND METHODS.] *Arch. Sci. Physiol.* 26(4): 379-385, illus. 1972. [From Biol. Abstr. 57(8), 1974. In French with English summ.] *WR 153: 5*
[Lab. Physiol. Respir., CNRS, 67-Strasbourg 3, France]

Hildwein, G. METABOLISME ENERGETIQUE DE QUELQUES MAMMIFERES ET OISEAUX DE LA FORET EQUATORIALE: II. RESULTATS EXPERIMENTAUX ET DISCUSSION. [ENERGY METABOLISM OF SOME MAMMALS AND BIRDS OF AN EQUATORIAL FOREST: II. EXPERIMENTAL RESULTS AND DISCUSSION.] *Arch. Sci. Physiol.* 26(4): 387-400, illus. 1972. [From Biol. Abstr. 57(8), 1974. In French with English summ.] *WR 153: 5*
[Lab. Physiol. Respir., CNRS, 67-Strasbourg 3, France]

Jehl, J. R., Jr. IS THIRTY MILLION YEARS LONG ENOUGH? *Pac. Discovery* 23(1): 16-23. 1970. [From Auk 91(1), 1974.] *WR 153: 5*
Reports on decrease in brown pelican population of California Islands due to DDT and other pesticides.

Meier, A. H., T. N. Trobec, H. G. Haymaker, R. MacGregor III, and A. C. Russo. DAILY VARIATIONS IN THE EFFECTS OF HANDLING OF FAT STORAGE AND TESTICULAR WEIGHTS IN SEVERAL VERTEBRATES. *J. Exp. Zool.* 184. p. 281-287. 1973. [From Auk 91(1), 1974.] *WR 153: 5*
"Anolis carolinensis, Coturnix japonica, and *Mus musculus."*

Sukhanov, V. B. GENERAL SYSTEM OF SYMMETRICAL LOCOMOTION OF TERRESTRIAL VERTEBRATES AND SOME FEATURES OF MOVEMENT OF LOWER TETRAPODS. *Published for the Smitheonian Institution and the National Science Foundation, Washington, D.C. by Amerind Publishing Co. Pvt. Ltd.* (New Delhi). TT-71-58006. vii + 274 p., 109 figs. 1974. Russian original by Nauka Publishers, Leningrad Division, Leningrad in 1968. [Translation available from the U.S. Department of Commerce, National Technical Information Service, Springfield, Va. 22151.] *WR 153: 5*
"Symmetrical locomotion encompasses almost all the forms of locomotion in the lower tetrapods and a number of gaits characteristic of mammals; undoubtedly, it represents the first and primitive type of terrestrial locomotion, the knowledge of which should serve as a basis for further studies on all types without exception to form and mode of movement in terrestrial vertebrates. This work consists of two portions: a general one which proposes a new system of symmetrical locomotion, and a second, more specific part which suggests methods of utilizing the new system for specific animal groups."

WILDLIFE--POLLUTION

Barros, James, and Douglas M. Johnston. THE INTERNATIONAL LAW OF POLLUTION. *Free Press* (New York). xvii + 476 p., 6.5 x 9.5 in. Price $12.95. *WR 153: 5*
"A collection of research and teaching materials dealing specifically with the international law of pollution prevention and control. Using international agreements and judicial decisions as a basis, this volume provides evidence of transnational action taken to date and suggests the scope of future developments in the interdependent world community."

Eroschenko, Victor Paul. THE WEIGHT AND HISTOLOGY OF GONADS, LIVERS AND ADRENAL GLANDS IN THE JAPANESE QUAIL AS AFFECTED BY PHOTOPERIODS AND THE INSECTICIDE KEPONE. *Ph.D. thesis, Univ. Calif.* (Davis). 160 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974.] *WR 153: 5*

Garrett, Ronald Lee. EFFECT OF TECHNICAL DDT ON EGGSHELL STRUCTURE IN COTURNIX QUAIL *(COTURNIX COTURNIX)* AND BROWN PELICANS *(PELICANUS OCCIDENTALIS)*. *Ph.D. thesis, Univ. Calif.* (Davis). 78 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974.] *WR 153: 6*

Greichus, Algirdas, Burruss McDaniel, and Yvonne A. Greichus. EFFECTS OF ORALLY ADMINISTERED INSECTICIDES AND POLYCHLORINATED BIPHENYLS ON THE PARASITE FAUNA OF TWO SPECIES OF PISCIVOROUS BIRDS. *Exp. Parasitol.* 35(2): 248-252. Apr. 1974. *WR 153: 6*
[S. Dak. State Univ., Brookings 57006] *"Phalacrocorax a. auritus* and *Pelecanus erythrorhynchos."*

Hirao, Yoshimitsu, and Clair C. Patterson. LEAD AEROSOL POLLUTION IN THE HIGH SIERRA OVERRIDES NATURAL MECHANISMS WHICH EXCLUDE LEAD FROM A FOOD CHAIN. *Science* 184(4140): 989-992. 31 May 1974. *WR 153: 6*
[Aoyama Gakuin Univ., 6-16-1 Chitosedai, Setagaya-Ku, Japan] Most of the lead contained in sedge and voles (mountain meadow mice) within one of the most pristine, remote valleys in the United States is not natural but came from smelter fumes and gasoline exhausts.--From abstr.

Johnels, A. MERCURY CONTAMINATION OF THE ENVIRONMENT IN SWEDEN. *Chem. Fallout* 1969. p. 221-241. 1969. [From Bird-Banding 44(1), 1973.] *WR 153: 6*
In an analysis of mercury content of biological materials, mainly from Sweden, feathers of museum specimens of goshawk *(Accipiter gentilis)* showed low and constant levels for the years 1815 to 1939. With coming of use of alkylmercuric compounds (of MeHg) for seed dressing in 1940, mercury content increased "10-20 fold." Data are also given for other birds and mammals.

Lincer, Jeffrey L., and Deena Salkind. A PRELIMINARY NOTE ON ORGANOCHLORINE RESIDUES IN THE EGGS OF FISH-EATING BIRDS OF THE WEST COAST OF FLORIDA. *Fla. Field Nat.* 1(2): 19-22. Fall 1973. *WR 153: 6*
[Mote Marine Lab., 9501 Blind Pass Road, Sarasota, Fla. 33581]

Newton, I. CHANGES ATTRIBUTED TO PESTICIDES IN THE NESTING SUCCESS OF THE SPARROWHAWK IN BRITAIN. *J. Appl. Ecol.* 11(1): 95-102. Apr. 1974. *WR 153: 6*
[Nature Conservancy, 12 Hope Terrace, Edinburgh EH 9 2AS, Scotland] Summary: (1) The nesting success of the sparrowhawk in and near arable areas of Britain has declined since 1947, due to increased egg-breakage and the failure of incubated eggs to hatch. In consequence, fewer nests were successful in recent years than formerly, and successful broods were smaller. (2) The mean brood size in successful nests was 4.0 up to 1947, 3.2 in 1947-56 and 2.9 in 1956-70. No change was noted in the initial number of eggs in each clutch, nor in the overall mortality of the young after hatching. (3) Before 1947, in the absence of human intervention, 100 clutches could be expected to produce 400 young, but in 1956-70 only 160 young, a drop of 60%. (4) No change was apparent in the success of birds nesting in areas remote from arable land, though the sample for these areas was small. (5) The change in farmed areas was attributed to contamination of the sparrowhawks nesting there with persistent organochlorine pesticides.

Oliver, Michael M. EFFECT OF ORGANO-PHOSPHATES AND CARBAMATES ON THE BLOOD PHYSIOLOGY OF SOUTHERN DEER. *M.S. thesis, La. State Univ.* 165 p. 1973. *WR 153: 6*
"Odocoileus virginianus."--Courtesy/ Ann J. Owens.

Switzer, Bruce, Victor Lewin, and Fred H. Wolfe. DDE AND REPRODUCTIVE SUCCESS IN SOME ALBERTA COMMON TERNS. *Can. J. Zool.* 51(10): 1081-1086, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 6*
[Univ. Alberta, Edmonton, Alberta, Canada]

WILDLIFE--BIOMETRICS

Benson, J. F. SOME PROBLEMS OF TESTING FOR DENSITY-DEPENDENCE IN ANIMAL POPULATIONS. *Oecologia* (Berlin) 13(2): 183-190, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 7*
[Dep. For., South Parks Road, Oxford, England]

Kovner, J. L., and S. A. Patil. PROPERTIES OF ESTIMATORS OF WILDLIFE POPULATION DENSITY FOR THE LINE TRANSECT METHOD. *Biometrics* 30(2): 225-230. June 1974. *WR 153: 7*
[Rocky Mountain Forest & Range Exp. Stn., Fort Collins 80521] Summary: The variance of several estimators of the population density based on the line transect method of distance sampling are studied under exponential sighting probability. The estimator suggested by Gates [1969] is shown to be minimum variance unbiased estimator. Efficiency of other estimators is obtained with respect to this estimator.

McCabe, Robert A. HOW IMPORTANT OR USEFUL ARE TRENDS IN WILDLIFE POPULATIONS AS INDICATORS OF HUMAN OVERPOPULATION AND ENVIRONMENTAL DEGRADATION? *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 43-49. 1971. *WR 153: 7*

Sen, A. R., J. Tourigny, and G. E. J. Smith. ON THE LINE TRANSECT SAMPLING METHOD. *Biometrics* 30(2): 329-340. June 1974. *WR 153: 7*
[Canadian Wildl. Serv., Ottawa, Ontario, Canada] Summary: Theory has been developed in the present paper for estimating wildlife density and its standard error by the line transect method of sampling using both right angle and radial distances and based on different assumptions than those made by Gates *et al.* [1968]. It is shown that relatively better fits are realized when the assumptions are tested with the help of field data considered by Gates *et al.* and other data employed by Hayne [1949].

WILDLIFE--MANAGEMENT & RESEARCH, GENERAL

Denney, Richard N. THE STATUS AND FUTURE OF WILDLIFE MANAGEMENT IN EAST AFRICA. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 60. p. 81-87. 1970. *WR 153: 7*
[1005 W. Prospect St., Fort Collins, Colo.]

Doan, K. H. EFFECT OF SNOWMOBILES ON FISH AND WILDLIFE RESOURCES. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 60. p. 97-103. 1970. *WR 153: 7*
[Manitoba Dep. Mines & Natural Resources, 909 Norquay Bldg., Winnipeg, Manitoba, Canada]

Graf, R. L. METHODS FOR DELINEATING WILDLIFE AND OTHER ENVIRONMENTAL MANAGEMENT REGIONS. *M.S. thesis, Va. Polytech. Inst.* 164 p. 1973. *WR 153: 7*
Courtesy/ Burd S. McGinnes.

Hatter, J. SOME FACTORS TO CONSIDER IN DEVELOPING INCREASED FISCAL SUPPORT FOR FISH AND WILDLIFE MANAGEMENT AGENCIES. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 88-93. 1971. *WR 153: 7*
[British Columbia Fish & Wildl. Branch, Victoria, British Columbia, Canada]

Iversen, J. A. A FLEXIBLE SYSTEM FOR RECORDING ACTIVITY OF CAGED ANIMALS. *Physiol. Behav.* 10. p. 971-972. 1973. [From Auk 91(1), 1974.] *WR 153: 7*

Kozicky, Edward L. AN AMERICAN GAME POLICY: FORTY YEARS YOUNG. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 25-28. 1971. *WR 153: 7*
[Winchester-Western Div., Olin, East Alton, Ill.]

Kruckenberg, Larry. LAND USE ON GAME MANAGEMENT AREAS. *N. Dak. Outdoors* 36 (11): 13-15, illus. May 1974. *WR 153: 7*
In 1973 more than 2000 acres of corn-sunflower and small grain were left in the field for winter wildlife food purposes in North Dakota.

WILDLIFE--MANAGEMENT & RESEARCH, GENERAL--Continued

Poole, Daniel A. NEW IDEAS AND PROCEDURES FOR FINANCING STATE AND PROVINCE FISH AND GAME PROGRAMS. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 82-87. 1971. *WR 153: 8*
[Wildl. Management Inst., Washington, D.C.]

Schneider, Phillip W. NEW IDEAS AND PROCEDURES FOR FINANCING FISH AND GAME PROGRAMS. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 78-82. 1971. *WR 153: 8*
[National Wildl. Federation, Portland, Oreg.]

WILDLIFE--HUNTING AREAS & PROBLEMS

Alexander, H. Lloyd, Jr. A PROFILE OF DELAWARE'S HUNTERS. *Del. Conserv.* 18 (1): 16-17, illus. Spring 1974. *WR 153: 8*

Daniel, Frank C. HUNTER PROGRAMS FOR THE FUTURE. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 60. p. 88-92. 1970. *WR 153: 8*
[1600 Rhode Island Ave., N.W., Washington, D.C.]

McIntire, Clifford G. SPORTSMENS' ACCESS TO PRIVATE LANDS. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 60. p. 92-97. 1970. *WR 153: 8*
[American Farm Bureau Federation, Washington, D.C.]

Rich, Maxwell E. "A POSITIVE APPROACH TO THE SPORT OF RECREATIONAL HUNTING." *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 71-74. 1971. *WR 153: 8*
[Natl. Rifle Assoc. of America, 1600 Rhode Island Ave., N.W., Washington, D.C.]

Weekes, W. D. A 15-YEAR RESEARCH SUMMARY AND HUNTING HARVEST DATA EVALUATION OF THE BROAD RUN MANAGEMENT AREA. *M.S. thesis, Va. Polytech. Inst.* 232 p. 1974. *WR 153: 8*
Courtesy/ Burd S. McGinnes.

WILDLIFE--INTRODUCTIONS

Burris, Oliver E., and Donald E. McKnight. GAME TRANSPLANTS IN ALASKA. *Alaska Dep. Fish Game Wildl. Tech. Bull.* no. 4. iv + 57 p., 4 figs. Dec. 1973. *WR 153: 8*
Reports of transplants of deer, moose, muskoxen, bison, elk, caribou, mountain goat, Dall sheep, furbearers, small game, and game birds in Alaska.

WILDLIFE--PREDATION, CROP DAMAGE, CONTROL

Berryman, Jack H. PREDATOR MANAGEMENT: A JUSTIFIABLE TOOL OF WILDLIFE MANAGEMENT. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 63-70. 1971. *WR 153: 8*
[U.S. Fish Wildl. Serv., Washington, D.C.]

Broadbent, Robert V. IS PREDATOR CONTROL A JUSTIFIABLE TOOL OF WILDLIFE MANAGEMENT? *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 51-54. 1971. *WR 153: 8*

Brown, William S. PREDATION IS COMPATIBLE WITH WILDLIFE MANAGEMENT. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 57-62. 1971. *WR 153: 8*
[Univ. Utah, Salt Lake City 84112]

Jantzen, Robert A. IS PREDATOR CONTROL A JUSTIFIABLE TOOL OF WILDLIFE MANAGEMENT? *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 54-57. 1971. *WR 153: 8*
[Ariz. Game & Fish Dep., Scottsdale]

WETLANDS & WILDLIFE

Arnett, Ray. FISH AND WILDLIFE RESOURCE DEVELOPMENT THROUGH WATER PROJECT MANAGEMENT. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 62. p. 56-61. 1972. *WR 153: 9*
[Dep. Fish & Game Resour. Agency, Sacramento, Calif. 95814]

Crockford, Jack A. OPPORTUNITIES IN WATER RESOURCE MANAGEMENT. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 62. p. 61-66. 1972. *WR 153: 9*
[Ga. Game & Fish Commission, Chamblee]

Gannon, J. W., Jr. CONSTITUTIONAL IMPLICATIONS OF WETLANDS LEGISLATION. *Environ. Affairs* 1(3): 654-669. 1971. [From Bird-Banding 43(4), 1972.] *WR 153: 9*

MAMMALS--GENERAL

Barbehenn, Kyle R. THE USE OF STRATIFIED TRAPS IN ESTIMATING DENSITY: *PEROMYSCUS* AND *BLARINA*. *Acta Theriol.* 18(20): 395-402. Dec. 1973. In English with Polish summ. *WR 153: 9*
[Washington Univ., Saint Louis, Mo. 63130]

England, Daniel Ray. THE PHYLOGENY OF THE ORDER CARNIVORA BASED ON CEREBRAL STRUCTURE. *Ph.D. thesis, Tex. A&M Univ.* 203 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 9*

Fellows, Florence C. I., and Maxwell H. R. Lewis. LYSINE METABOLISM IN MAMMALS. *Biochem. J.* 136(2): 329-334. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 9*
[Queen's Univ., Belfast, Northern Ireland]

Freeland, W. J., and Daniel H. Janzen. STRATEGIES IN HERBIVORY BY MAMMALS: THE ROLE OF PLANT SECONDARY COMPOUNDS. *Am. Nat.* 108(961): 269-289. May-June 1974. *WR 153: 9*
[Univ. Mich., Ann Arbor 48104]

Myton, Becky. UTILIZATION OF SPACE BY *PEROMYSCUS LEUCOPUS* AND OTHER SMALL MAMMALS. *Ecology* 55(2): 277-290, 15 figs. Early Spring 1974. *WR 153: 9*
[Universidad Nacional Autonoma de Honduras, Teguicigalpa, D.C., Centro America] Fifty percent of the total *Peromyscus* were captured in the first 30 days of trapping before capture of the first *Blarina* and *Pitymys*. The *Peromyscus* were released after capture; hence, it was not the presence of *Peromyscus* that caused the delayed capture of the *Blarina* and *Pitymys*. *Peromyscus* were distributed in groups consisting of one adult female, several adult males, and a number of juveniles.--From abstr. Courtesy/ Paul A. Stewart.

Ramos, Judith Ann. INFLUENCES OF LIGHT ON ACTIVITY AND PHASING OF CARNIVORES. *Ph.D. thesis, Univ. Calif.* (Los Angeles). 86 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974. Pages 1-17, previously copyrighted material not microfilmed at request of author. Available for consultation at University of California Library at Los Angeles.] *WR 153: 9*

Schivatscheva, T. VERGLEICHSHISTOLOGISCHE UNTERSUCHUNG DER LYMPHKNOTEN BEI DEN SAEUGETIEREN: DIE LYMPHKNOTEN BEI DEN RAUBTIEREN. [COMPARATIVE HISTOLOGICAL INVESTIGATION OF THE LYMPH NODES OF MAMMALS: THE LYMPH NODES OF CARNIVORES.] *Anat. Anz.* 133(5): 486-494. 1973. [From Biol. Abstr. 57(8), 1974. In German.] *WR 153: 9*
[Minsucher ul. N. 8, Sofia, Bulgaria] "Weasel, fox, marten and skunk."

Tarasoff, Frederick John. ANATOMICAL OBSERVATIONS ON THE RIVER OTTER, SEA OTTER AND HARP SEAL WITH REFERENCE TO THERMAL REGULATION AND DIVING. *Ph.D. thesis, McGill Univ.* 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 9*
"Lutra canadensis, Enhydra lutris, and *Pagophilus groenlandicus."*

MAMMALS--GENERAL--Continued

Trapp, Gene Robert. COMPARATIVE BEHAVIORAL ECOLOGY OF TWO SOUTHWEST UTAH CARNIVORES: *BASSARISCUS ASTUTUS* AND *UROCYON CINEREOARGENTEUS*. *Ph.D. thesis, Univ. Wis.* 262 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 10*

Yalden, D. W., P. A. Morris, and J. Harper. STUDIES ON THE COMPARATIVE ECOLOGY OF SOME FRENCH SMALL MAMMALS. *Mammalia* 37(2): 257-276, illus. 1973. [From Biol. Abstr. 57(11), 1974. In English with French summ.] *WR 153: 10*
[Univ. Manchester, Manchester, England] *"Apodemus sylvaticus, Sorex araneus, Crocidura russula,* and *Pitymys subterraneus."*

MAMMALS--TECHNIQUES

Baar, Stephen L., and Eugene D. Fleharty. A RESPIROMETER FOR DETERMINATION OF METABOLIC RATES AND ACTIVITY PATTERNS UNDER SIMULATED NATURAL CONDITIONS. *Acta Theriol.* 18(22): 435-441, 1 fig. Dec. 1973. In English with Polish summ. *WR 153: 10*
[Fort Hays Kans. State Coll., Hays 67601]

Dzirudzik, Bogumila. [KEY TO THE IDENTIFICATION OF HAIRS OF MAMMALS FROM POLAND.] *Acta Zool. Cracov.* 18(4): 73-91, illus. 1973. [From Biol. Abstr. 57 (10), 1974. In Polish with English summ.] *WR 153: 10*
[Polish Acad. Sci., 31-016 Krakow, Poland]

Getz, Lowell L., and George O. Batzli. A DEVICE FOR PREVENTING DISTURBANCE OF SMALL MAMMAL LIVE-TRAPS. *J. Mammal.* 55(2): 447-448, 1 fig. May 1974. *WR 153: 10*
[Univ. Ill., Urbana 61801]

Holisova, Vera, and Jan Zejda. BAIT CONSUMPTION AND CATCH SIZE IN CATCHING SMALL MAMMALS. *Zool. Listy* 22(3): 189-200, illus. 1973. [From Biol. Abstr. 57 (11), 1974.] *WR 153: 10*
[Czechoslovak Acad. Sci., 603 65 Brno, Czechoslovakia]

Klevezal', G. A., and M. V. Mina. [FACTORS DETERMINING THE PATTERN OF ANNUAL LAYERS IN DENTAL TISSUE AND BONES OF MAMMALS.] *Zh. Obshch. Biol.* 34(4): 594-604, illus. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with English summ.] *WR 153: 10*
Data on the variability of the annual layer pattern in teeth and bones of various mammals--ungulates, carnivores, rodents (wolves, elks, deer *Rangifer tarandus, Cervus nippon, Odocoileus hemionus, Marmota baibacina, Mustela vison, Apodemus* sp., *Sorex* sp., mice and *Ursus americanus*) and Cetacea, were analyzed.

Lim, Boo Liat. BAIT PREFERENCE BY SMALL MAMMALS. *Malay. Nat. J.* 26(1/2): 32-36. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 10*
[Inst. Med. Res., Kuala Lumpur, Malaysia]

Randolph, Sarah E. A TRACKING TECHNIQUE FOR COMPARING INDIVIDUAL HOME RANGES OF SMALL MAMMALS. *J. Zool. Proc. Zool. Soc. Lond.* 170(4): 509-520, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 10*
[Univ. London, King's Coll., Strand, London, England]

MAMMALS--FAUNAS & MANUALS

Contreras, Julio R. LA MASTOFAUNA DE LA ZONA LA LAGUNA CHASICO, PROVINCIA DE BUENOS AIRES. [MASTOFAUNA OF THE AREA OF CHASICO POND, PROVINCE OF BUENOS AIRES.] *Physis Secc. C Cont. Org. Terr.* 32(84): 215-219. 1973. [From Biol. Abstr. 57(11), 1974. In Spanish with English summ.] *WR 153: 10*
[Estac. Biol. Isla Victoria, San Carlos de Bariloche, Rio Negro, Argentina]
Mammals.

MAMMALS--FAUNAS & MANUALS--Continued

Jones, J. Knox, Jr., Hugh H. Genoways, and James D. Smith. ANNOTATED CHECKLIST OF MAMMALS OF THE YUCATAN PENINSULA, MEXICO. III. MARSUPIALIA, INSECTIVORA, PRIMATES, EDENTATA, LAGOMORPHA. *Occas. Pap. Mus. Tex. Tech Univ.* no. 23. p. 1-12, 1 fig. 26 Apr. 1974. *WR 153: 11*

Kirkland, Gordon L., Jr., and Rebecca J. Griffin. MICRODISTRIBUTION OF SMALL MAMMALS AT THE CONIFEROUS-DECIDUOUS FOREST ECOTONE IN NORTHERN NEW YORK. *J. Mammal.* 55(2): 417-427, 4 figs. May 1974. *WR 153: 11*
[Shippensburg State Coll., Shippensburg, Pa. 17257]

Krishnan, M. AN ECOLOGICAL SURVEY OF THE LARGER MAMMALS OF PENINSULAR INDIA. *J. Bombay Nat. Hist. Soc.* 69(3): 469-501, illus. 1972. [From Biol. Abstr. 57 (11), 1974.] *WR 153: 11*

Linzey, Donald W., and Alicia V. Linzey. NOTES ON FOOD OF SMALL MAMMALS FROM GREAT SMOKY MOUNTAINS NATIONAL PARK, TENNESSEE-NORTH CAROLINA. *J. Elisha Mitchell Sci. Soc.* 89(1/2): 6-14. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 11*
[Univ. South Ala., Mobile 36688]

Naumann, Clas M., and Jochen Niethammer. ZUR SAEUGETIERFAUNA DES AFGHANISCHEN PAMIR UND DES WAKHAN. [ON THE MAMMALIAN FAUNA OF THE AFGHANIAN PAMIR AND THE WAKHAN.] *Bonn. Zool. Beitr.* 24(3): 237-248, illus. 1973. [From Biol. Abstr. 57 (9), 1974. In German with English summ.] *WR 153: 11*
[Inst. Angew. Zool., 53 Bonn I, West Germany]

Turner, Ronald W. MAMMALS OF THE BLACK HILLS OF SOUTH DAKOTA AND WYOMING. *Univ. Kans. Mus. Nat. Hist. Misc. Publ.* no. 60. 178 p., 12 figs. 3 Apr. 1974. Paper, $7.50 post-paid. *WR 153: 11*
Publication of a thesis listed in *WR 146: 27.*

Vericad, J.-R., and A. Meylan. RESULTATS DE QUELQUES PIEGEAGES DE MICROMAMMIFERES DANS LE SUD-EST DE L'ESPAGNE. [RESULTS OF TRAPPING FOR SMALL MAMMALS IN THE SOUTH EAST OF SPAIN.] *Mammalia* 37(2): 333-341, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with German and English summ.] *WR 153: 11*
[Cent. Pirenaico Biol., Huesca, Spain]

Walker, Jerry A. DESCRIPTION, ORDINATION, AND SUCCESSION OF PLANT STANDS AND SMALL MAMMALS ON A STUDY AREA IN THE RELLER NATURAL HISTORY RESEARCH AREA. *Ph.D. thesis, Univ. Nebr.* 101 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 11*

Wood, Thomas J. THE RECENT MAMMALS OF KEJIMKUJIK NATIONAL PARK. *Proc. N.S. Inst. Sci.* 27. p. 43-58, 2 figs. (1971-1973). *WR 153: 11*
[Canadian Wildl. Serv., Fredricton, New Brunswick, Canada] Abstract: The mammalian fauna of Kejimkujik National Park in southwestern Nova Scotia was systematically sampled during the summer of 1971. An aerial survey for deer and moose abundance and distribution was flown in February 1972. Thirty-four species of mammals were found to occur within the Park.

MAMMALS--POPULATIONS, HOME RANGES, COMMUNITIES

Kirkov, S. V. [HISTORIC CHANGES IN THE POPULATION AND HABITAT OF MAMMALS IF THE DECIDUOUS-OAK FOREST STEPPE.] *Sb. Tr. Zool. Muz. Mosk. Gos. Univ.* 13: 69-85. 1972. [From Biol. Abstr. 57(10), 1974. In Russian.] *WR 153: 11*

Oxley, D. J., M. B. Fenton, and G. R. Carmody. THE EFFECTS OF ROADS ON POPULATIONS OF SMALL MAMMALS. *J. Appl. Ecol.* 11(1): 51-59. Apr. 1974. *WR 153: 11*
[Carleton Univ., Ottawa K1S 5B6, Canada] Summary: (1) Trapping, observation and road mortality studies indicated that small forest mammals (e.g. *Tamias striatus, Sciurus carolinensis,* and *Peromyscus leucopus*--Rodentia) were reluctant

to venture on to road surfaces where the distance between forest margins exceeded 20m. (2) Wider roads were crossed almost exclusively by medium-sized mammals such as *Marmota monax*, *Erethizon dorsatum* (Rodentia), *Procyon lotor* and *Mephitis mephitis* (Carnivora). (3) Road mortality increased with increasing road improvement for medium-sized mammals and was highest when traffic density was high and young were emerging. (4) A four-lane divided highway may be as effective a barrier to the dispersal of small forest mammals as a body of fresh water twice as wide.

MAMMALS--PARASITES & DISEASES

Carey, A. B. AN ANALYSIS OF AN APPARENT RABIES EPIZOOTIC IN ROCKBRIDGE COUNTY, VIRGINIA. *M.S. thesis, Va. Polytech. Inst.* 168 p. 1974. *WR 153: 12*
Courtesy/ Burd S. McGinnes.

Graber, M., P. M. Troncy, and J. Thal. PRESENCE DE LARVES D'*ARMILLIFER ARMILLATUS* WYMAN, 1847 CHEZ DIVERS MAMMIFERES DOMESTIQUES ET SAUVAGES D'AFRIQUE CENTRALE. [PRESENCE OF *ARMILLIFER ARMILLATUS* WYMAN, 1847 LARVAE IN VARIOUS DOMESTIC AND WILD ANIMALS IN CENTRAL AFRICA.] *Bull. Soc. Pathol. Exot.* 66(1): 183-191. 1973. [From Biol. Abstr. 57(8), 1974. In French with English summ.] *WR 153: 12*
[Inst. Elev. Med. Vet. Pays Trop., Maisons-Alfort, France] *"Phacochoerus aethiopicus, Potamochoerus porcus, Hylochoerus meinertzhageni, Sus scrofa domestica, Bubalus (Syncerus) caffer, Civettictis civetta, Herpestes ichneuman, Mungos mungo, Panthera leo, Panthera pardus, Papio anubis, Cercopithecus cephus,* and *Cercopithecus nictitans."*

Richards, Stephen H. CANINE DISTEMPER IN WILD CARNIVORES. *N. Dak. Outdoors* 36(12): 10-11. June 1974. *WR 153: 12*

SHREWS, MOLES, BATS

Ariagno, Daniel. OBSERVATIONS SUR UNE COLONIE DE PETITS ET DE GRANDS MURINS, *MYOTIS OXYGNATUS* ET *MYOTIS MYOTIS*. [OBSERVATIONS ON A COLONY OF SMALL AND LARGE BATS, *MYOTIS OXYGNATUS* AND *MYOTIS MYOTIS*.] *Ann. Speleol.* 28(1): 125-130, illus. 1973. [From Biol. Abstr. 57(8), 1974. In French with English summ.] *WR 153: 12*
[Univ. Lyon-I, 69621 Villeurbanne, France]

Augee, M. L., and I. R. McDonald. ROLE OF THE ADRENAL CORTEX IN THE ADAPTATION OF THE MONOTREME *TACHYGLOSSUS ACULEATUS* TO LOW ENVIRONMENTAL TEMPERATURE. *J. Endocrinol.* 58(3): 513-523, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 12*
[Univ. New South Wales, Kensington, New South Wales, 2033, Australia]

Bhatnagar, Kunwar P., and Frank C. Kallen. MORPHOLOGY OF THE NASAL CAVITIES AND ASSOCIATED STRUCTURES IN *ARTIBEUS JAMAICENSIS* AND *MYOTIS LUCIFUGUS*. *Am. J. Anat.* 139(2): 167-189. 1974. [From Biol. Abstr. 57(12), 1974.] *WR 153: 12*
[Univ. Louisville Sch. Med., Louisville, Ky. 40201]

Bogan, Michael Allen. GEOGRAPHIC VARIATION IN *MYOTIS CALIFORNICUS* IN THE SOUTHWESTERN UNITED STATES AND MEXICO. *Ph.D. thesis, Univ. N. Mex.* 120 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 12*

Brandt, Michael. LICHT- UND ELEKTRONENMIKROSKOPISCHE SOWIE ENZYMHISTOCHEMISCHE UNTERSUCHUNGEN AN LEBER UND NIERE DES IGELS *(ERINACEUS EUROPAEUS)* IM WINTERSCHLAF UND IM SOMMERLICHEN WACHZUSTAND. [LIGHT AND ELECTRON-MICROSCOPIC AND ENZYME-HISTOCHEMICAL STUDIES OF THE LIVER AND KIDNEY OF THE HEDGEHOG *(ERINACEUS EUROPAEUS)* IN WINTER HIBERNATION AND IN THE SUMMER.] *Z. Wiss. Zool.* 185 (3/4): 292-318, illus. 1973. [From Biol. Abstr. 57(10), 1974. In German with English summ.] *WR 153: 12*
[Univ. Kiel, 23 Kiel, West Germany]

Bridges, C. D. B., and T. A. Quilliam. VISUAL PIGMENTS OF MEN, MOLES AND HEDGEHOGS. *Vision Res.* 13(12): 2417-2421, illus. 1973. [From Biol. Abstr. 57(9), 1974. In English with French, German and Russian summ.] *WR 153: 13*
[N.Y. Univ. Med. Cent., New York, N.Y.] *"Talpa europaea* and *Erinaceus europaeus."*

Cooper, D. W., J. L. Vandeberg, M. E. Griffiths, and E. H. M. Ealey. HAEMOGLOBIN POLYMORPHISMS IN THE ECHIDNA, *TACHYGLOSSUS ACULEATUS*. *Australia J. Biol. Sci.* 26(3): 605-612, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 13*
[Macquarie Univ., North Ryde, N.S.W. 2113, Australia] Classification.

Doucet, G. Jean, and J. Roger Bider. THE EFFECTS OF WEATHER ON THE ACTIVITY OF THE MASKED SHREW. *J. Mammal.* 55(2): 348-363, 7 figs. May 1974. *WR 153: 13*
[McGill Univ., Macdonald College 800, Quebec, Canada] *"Sorex cinereus cinereus."*

Fayenuwo, J. O., and L. B. Halstead. BREEDING CYCLE OF STRAW-COLORED FRUIT BAT, *EIDOLON HELVUM*, AT ILE-IFE, NIGERIA. *J. Mammal.* 55(2): 453-454, 1 fig. May 1974. *WR 153: 13*
[Univ. Ife, Ile-Ife, Nigeria]

Fenton, M. Brock. THE ROLE OF ECHOLOCATION IN THE EVOLUTION OF BATS. *Am. Nat.* 108(961): 386-388. May-June 1974. *WR 153: 13*
[Carleton Univ., Ottawa, Canada K1S 5B6]

Hasler, John F., and M. W. Sorenson. BEHAVIOR OF THE TREE SHREW, *TUPAIA CHINENSIS*, IN CAPTIVITY. *Am. Midl. Nat.* 91(2): 294-314, 5 figs. Apr. 1974. *WR 153: 13*
[Univ. Ill., Urbana 61801]

Heithaus, E. Raymond, Paul A. Opler, and Herbert G. Baker. BAT ACTIVITY AND POLLINATION OF *BAUHINIA PAULETIA*: PLANT-POLLINATOR COEVOLUTION. *Ecology* 55(2): 412-419, 4 figs. Early Spring 1974. *WR 153: 13*
[Northwestern Univ., Evanston, Ill. 60201] *"Phyllostomus discolor* and *Glossophaga soricina."*--Courtesy/ Paul A. Stewart.

Hildwein, Guy. CYCLE SAISONNIER DES CAPACITES THERMOREGULATRICES, EN AMBIANCE NEUTRE ET CHAUDE, D'UN INSECTIVORE DE MADAGASCAR, L'*ERICULUS (SETIFER SETOSUS)*. [SEASONAL CYCLE OF THERMOREGULATORY CAPACITY OF *ERICULUS (SETIFER SETOSUS)*, AN INSECTIVORE FROM MADAGASCAR IN A NORMAL AND HOT CLIMATE.] *Arch. Sci. Physiol.* 26(4): 325-337, illus. 1972. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 13*
[CNRS, 23 rue Becquerel, 67-Strasbourg 3, France]

Howell, D. J. ACOUSTIC BEHAVIOR AND FEEDING IN GLOSSOPHAGINE BATS. *J. Mammal.* 55(2): 293-308, 10 figs. May 1974. *WR 153: 13*
[Princeton Univ., Princeton, N.J. 08540]

Kitchener, D. J. REPRODUCTION IN THE COMMON SHEATH-TAILED BAT, *TAPHOZOUS GEORGIANUS* (THOMAS) (MICROCHIROPTERA: EMBALLONURIDAE), IN WESTERN AUSTRALIA. *Australian J. Zool.* 21(3): 375-389, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 13*
[Western Australian Mus., Perth, Australia 6000]

Kock, Dieter. MERKMALSDIFFERENZEN TROPISCHER FLEDERMAEUSE. [CHARACTER DIFFERENCES IN TROPICAL BATS.] *Z. Saeugetierkd.* 38(3): 129-143. 1973. [From Biol. Abstr. 57(7), 1974. In German with English summ.] *WR 153: 13*
[Forschungsinstut Senckenberg, Frankfurt/Main, West Germany]

Laycock, Pamela. DISTRIBUTION AND ABUNDANCE OF BATS IN THE NATAL MIDLANDS (MAMMALIA: CHIROPTERA). *Ann. Transvaal Mus.* 28(12): 207-227, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 13*
[Univ. Natal, Pietermaritzburg, South Africa] *"Rhinolophus simulator, R. clivosus augur, Myotis (Selysius) tricolor,* and *Miniopterus schreibersi natalensis."*

Martin, Kathryn Helen. EFFECTS OF COLD AND ISOLATION STRESS ON THE SPLEEN AND CELLULAR ELEMENTS OF THE BLOOD OF THE LITTLE BROWN BAT *MYOTIS LUCIFUGUS*. *Ph.D. thesis, Cornell Univ.* 315 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 14*

Matskasi, I. FLUKES FROM BATS IN VIETNAM. *Acta Zool. Acad. Sci. Hung.* 19 (3/4): 339-359, illus. 1973. [From Biol. Abstr. 57(11), 1974. In English with Russian summ.] *WR 153: 14*
[Hung. Nat. Hist. Mus., H-1088 Budapest, Hungary]

Miller, Grover C., R. L. Price, and D. A. Wilson. HELMINTHS OF THE SHORT-TAILED SHREW, *BLARINA BREVICAUDA*, IN NORTH CAROLINA. *J. Parasitol.* 60(3): 523-524. June 1974. *WR 153: 14*
[N.C. State Univ., Raleigh 27607]

Mutere, Festo A. A COMPARATIVE STUDY OF REPRODUCTION IN TWO POPULATIONS OF THE INSECTIVOROUS BATS, *OTOMOPS MARTIENSSENI*, AT LATITUDES 1°5' S AND 2°30' S. *J. Zool. Proc. Zool. Soc. Lond.* 171(1): 79-92, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 14*
[Univ. Nairobi, Nairobi, Kenya]

Okia, Nathan O. BREEDING IN FRANQUET'S BAT, *EPOMOPS FRANQUETI* (TOMES), IN UGANDA. *J. Mammal.* 55(2): 462-465, 1 fig. May 1974. *WR 153: 14*
[Makerere Univ., P.O. Box 7062, Kampala, Uganda]

Pernetta, J. C. THE ECOLOGY OF *CROCIDURA SUAVEOLENS CASSITERIDUM* (HINTON) IN A COASTAL HABITAT. *Mammalia* 37(2): 241-256. 1973. [From Biol. Abstr. 57 (11), 1974. In English with French summ.] *WR 153: 14*

Peterson, R. L. VARIATION IN THE AFRICAN BAT, *TADARIDA LOBATA*, WITH NOTES ON HABITAT AND HABITS (CHIROPTERA: MOLOSSIDAE). *Roy. Ont. Mus. Life Sci. Occas. Pap.* no. 24. p. 1-8, 3 figs. 15 Apr. 1974. Price 50¢. *WR 153: 14*
[Royal Ontario Mus., Toronto, Ontario, Canada]

Randolph, James Collier. THE ECOLOGICAL ENERGETICS OF A HOMEOTHERMIC PREDATOR. *Ph.D. thesis, Carleton Univ.* (Canada). 1972. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 14*
"Blarina brevicauda."

Rauch, Josefine C. SEQUENTIAL CHANGES IN REGIONAL DISTRIBUTION OF BLOOD IN *EPTESICUS FUSCUS* (BIG BROWN BAT) DURING AROUSAL FROM HIBERNATION. *Can. J. Zool.* 51(9): 973-981, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 14*
[Univ. Manitoba, Winnipeg, Manitoba, Canada]

Rozmus, Stanisław. KEEPING THE MOLE *(TALPA EUROPAEA* LINNAEUS, 1758*)* IN CAPTIVITY. *Acta Theriol.* 18(27): 489-490. Dec. 1973. In English. *WR 153: 14*
[Agric. Acad., Al. Mickiewicza 24-26, 30-059 Kraków, Poland]

Schlitter, D. A., and L. W. Robbins. PRESENCE OF *TADARIDA* IN THE CENTRAL SAHARA. *Mammalia* 37(1): 199. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 14*
[Univ. Md., College Park 20742] *"Tadarida aegyptiaca."*

Skaren, Uolevi. SPRING MOULT AND ONSET OF THE BREEDING SEASON OF THE COMMON SHREW *(SOREX ARANEUS* L.*)* IN CENTRAL FINLAND. *Acta Theriol.* 18(23): 443-458, 5 figs. Dec. 1973. In English with Polish summ. *WR 153: 14*
[74300 Sonkajärvi, Finland]

Skoczeń, Stanisław, and Stanisław Rozmus. A DEVICE FOR TESTING THE STRENGTH OF MOLES. *Acta Theriol.* 18(27): 490-492, 1 fig. Dec. 1973. In English. *WR 153: 14*
[Agric. Acad., Al. Mickiewicza 24-26, 30-059 Kraków, Poland] *"Talpa europaea."*

SHREWS, MOLES, BATS--Continued

Spenrath, Curtis A., and Richard K. LaVal. AN ECOLOGICAL STUDY OF A RESIDENT POPULATION OF *TADARIDA BRASILIENSIS* IN EASTERN TEXAS. *Occas. Pap. Mus. Tex. Tech Univ.* no. 21. p. 1-14, 7 figs. 26 Apr. 1974. *WR 153: 15*
[Tex. Tech Univ., Lubbock 79409]

Tuttle, Merlin D. AN IMPROVED TRAP FOR BATS. *J. Mammal.* 55(2): 475-477, 1 fig. May 1974. *WR 153: 15*
[Univ. Kans., Lawrence 66045]

Tyrner, Pavel, and Zdenek Barta. K VYSKYTU BELOZUBKY SEDE *(CROCIDURA SUAVEOLENS* PALLAS, 1811*)* V SEVEROZAPADNICH CECHACH. [ON THE OCCURRENCE OF THE LESSER WHITE-TOOTHED SHREW *(CROCIDURA SUAVEOLENS* PALLAS, 1811*)* IN NORTHWESTERN BOHEMIA.] *Lynx* (Prague) 13: 51-55, illus. 1972. [From Biol. Abstr. 57(7), 1974. In Czech with English summ.] *WR 153: 15*
[Okresni Muz., 436 34 Litvinov, Czechoslovakia]

Valdivieso, Dario, and J. R. Tamsitt. ELECTROPHORETIC PATTERNS OF SERUM PROTEINS OF NEOTROPICAL BATS (CHIROPTERA). *Roy. Ont. Mus. Life Sci. Contrib.* no. 98. p. 1-24, 3 figs. 10 Apr. 1974. In English with Spanish summ. Price $1.25. *WR 153: 15*
[Royal Ontario Mus., Toronto, Ontario, Canada]

Vlasak, Petr. VERGLEICH DER POSTNATALEN ENTWICKLUNG DER ARTEN *SOREX ARANEUS* L. UND *CROCIDURA SUAVEOLENS* (PALL.) MIT BEMERKUNGEN ZUR METHODIK DER LABORZUCHT (INSECTIVORA: SORICIDAE). [COMPARISON OF THE POSTNATAL DEVELOPMENT OF THE SPECIES *SOREX ARANEUS* L. AND *CROCIDURA SUAVEOLENS* (PALL.) WITH REMARKS ON THE METHODS OF LABORATORY BREEDING (INSECTIVORA: SORICIDAE).] *Vestn. Cesk. Spol. Zool.* 37(3): 222-233, illus. 1973. [From Biol. Abstr. 57(8), 1974. In German.] *WR 153: 15*
[Vinicna 7, 128 44 Prague 2, Czechoslovakia]

Vogel, Peter. VERGLEICHENDE UNTERSUCHUNG ZUM ONTOGENESEMODUS EINHEIMISCHER SORICIDEN *(CROCIDURA RUSSULA, SOREX ARANEUS* AND *NEOMYS FODIENS).* [COMPARATIVE INVESTIGATIONS OF THE MODE OF ONTOGENESIS OF DOMESTIC SORICIDAE *(CROCIDURA RUSSULA, SOREX ARANEUS* AND *NEOMYS FODIENS).*] *Rev. Suisse Zool.* 79(4): 1201-1332, illus. 1972. [From Biol. Abstr. 57(8), 1974. In German with French and English summ.] *WR 153: 15*

Vohralik, Vladimir, and Milos Andera. ROZSIRENI REJSKA HORSKEHO *(SOREX ALPINUS* SCHINZ, 1837*)* V CECHACH. [DISTRIBUTION OF ALPINE SHREW *(SOREX ALPINUS* SCHINZ, 1837*)* IN BOHEMIA.] *Lynx* (Prague) 13: 57-65, illus. 1972. [From Biol. Abstr. 57(7), 1974. In Czech with English summ.] *WR 153: 15*
[Univ. Karlova, Vinicna 7, 128 44 Prague 2, Czechoslovakia]

RABBITS & PIKAS

August, J. B. A STUDY OF LIBERATION OF SNOWSHOE HARE ON ANCESTRAL RANGE IN VIRGINIA. *M.S. thesis, Va. Polytech. Inst.* 66 p. 1974. *WR 153: 15*
Courtesy/ Burd S. McGinnes.

Brunson, John Taylor. SOME HEMATOLOGICAL, WEIGHT, AND MORPHOLOGICAL PARAMETERS IN *OCHOTONA PRINCEPS* AND THEIR APPLICATION TO THE PHYSIOLOGICAL ECOLOGY AND DEGREE OF POPULATIONAL DIVERGENCE IN THE COLORADO PIKA. *Ph.D. thesis, Colo. State Univ.* 198 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 15*

Duszynski, Donald W. MORE INFORMATION ON THE COCCIDIAN PARASITES (PROTOZOA: EIMERIIDAE) OF THE COLORADO PIKA, *OCHOTONA PRINCEPS*, WITH A KEY TO THE SPECIES. *J. Wildl. Dis.* 10(2): 94-100, 11 figs. Apr. 1974. *WR 153: 15*
[Univ. N. Mex., Albuquerque 87131]

Gizenko, A. I., and L. S. Shevchenko. [PROSPECTS OF *ORYCTOLAGUS CUNICULUS* L., 1758 BREEDING IN THE UKRAINIAN SSR.] *Vestn. Zool.* 7(4): 10-15, illus. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with English summ.] *WR 153: 16*
[Inst. Zool., Acad. Sci. Ukr. SSR, Kiev, USSR]

Jacobson, H. A. PATHOLOGICAL AND PHYSIOLOGICAL RELATIONSHIPS OF PARASITIC DISEASE IN A SELECT COTTONTAIL RABBIT POPULATION. *M.S. thesis, Va. Polytech. Inst.* 96 p. 1973. *WR 153: 16*
Courtesy/ Burd S. McGinnes.

Jacobson, H. A., R. L. Kirkpatrick, and R. B. Holliman. EMACIATION AND ENTERITIS OF COTTONTAIL RABBITS INFECTED WITH *HASSTILESIA TRICOLOR* AND OBSERVATIONS ON A FLUKE TO FLUKE ATTACHMENT PHENOMENON. *J. Wildl. Dis.* 10(2): 111-114, 1 fig. Apr. 1974. *WR 153: 16*
[Va. Polytech. Inst., Blacksburg 24061] *"Sylvilagus floridanus."*

Jezierski, Wlodzimierz. ELEMENTS OF THE SPACE STRUCTURE OF EUROPEAN HARE *(LEPUS EUROPAEUS* PALLAS, 1778*)* POPULATION. *Ekol. Pol.* 20(42): 593-607. 1972. [From Biol. Abstr. 57(8), 1974.] *WR 153: 16*
[Pol. Akad. Nauk, Dziekanow Lesny, Poland]

Krylova, T. V. [AGE-RELATED COMPOSITION OF THE MONGOLIAN PIKA, *OCHOTONA PRICEI*, POPULATION.] *Zool. Zh.* 52(9): 1422-1425. 1973. [From Biol. Abstr. 57 (11), 1974. In Russian with English summ.] *WR 153: 16*
[Moscow State Univ., Moscow, USSR]

Pepin, D. RECHERCHE D'UN CRITERE D'AGE CHEZ LE LIEVRE *LEPUS EUROPAEUS*. [STUDIES OF AN AGE CRITERION FOR THE HARE, *LEPUS EUROPAEUS* PALLAS.] *Ann. Zool. Ecol. Anim.* 5(2): 271-281, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 16*
[Inst. Natl. Rech. Agron., 78350 Jouy-en-Josas, France]

Rose, George B. ENERGY DYNAMICS OF IMMATURE COTTONTAIL RABBITS. *Am. Midl. Nat.* 91(2): 473-477. Apr. 1974. *WR 153: 16*
[Ill. Nat. Hist. Surv., Urbana 61801] *"Sylvilagus floridanus."*

Sargent, A. P. SPONTANEOUS ARTERIOSCLEROSIS IN A BROWN HARE. *J. Wildl. Dis.* 10(2): 130-134, 4 figs. Apr. 1974. *WR 153: 16*
[Fisheries Lab., The Nothe, Weymouth, Dorset, England] *"Lepus europaeus."*

Shepherd, Rosamond C. H., and J. W. Edmonds. OBSERVATIONS OF ECTOPARASITES OF THE WILD RABBIT *ORYCTOLAGUS CUNICULUS* (L.) IN THE WERRIBEE DISTRICT OF VICTORIA. *J. Aust. Entomol. Soc.* 12(3): 195-200, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 16*
[Keith Turnbull Res. Stn., Frankston 3199, Victoria, Australia]

Szukiel, Eleonora. THE EFFECT OF REPELLENTS ON THE FOOD PREFERENCES OF HARES. *Acta Theriol.* 18(26): 481-488, 1 fig. Dec. 1973. In English with Polish summ. *WR 153: 16*
[Forestry Res. Inst., ul. Wery Kostrzewy 3, 02-362 Warsaw, Poland]

Wang, Lawrence C. H., Douglas L. Jones, Robert A. MacArthur, and William A. Fuller. ADAPTATION TO COLD: ENERGY METABOLISM IN AN ATYPICAL LAGOMORPH, THE ARCTIC HARE *(LEPUS ARCTICUS)*. *Can. J. Zool.* 51(8): 841-846, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 16*
[Univ. Alberta, Edmonton, Alberta T6G 2E1, Canada]

Williams, R. T. ESTABLISHMENT AND SEASONAL VARIATION IN ABUNDANCE OF THE EUROPEAN RABBIT FLEA, *SPILOPSYLLUS CUNICULI* (DALE), ON WILD RABBITS IN AUSTRALIA. *J. Entomol. Ser. A Gen. Entomol.* 48(1): 117-127, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 16*
[CSIRO, Div. Wildl. Res., Canberra, Australia]

RABBITS & PIKAS--Continued

Yamasaki, Fusao, and Shunro Komatsu. PECULIAR SPIRAL RIDGES OF THE CAECUM OF THE PIKA. *J. Pre-med. Course Sapporo Med Coll.* 12: 41-53, illus. 1971. [From Biol. Abstr. 57(8), 1974.] *WR 153: 17*
[Sapporo Med. Coll., Sapporo, Hokkaido, Japan] The phylogenetic relation of the spiral ridges between ochotonids and leporids and 2 types of physiological peristalsis in lagomorphs are discussed.

RODENTS--MISCELLANEOUS

Adamczewska-Andrzejewska, K. A. THE LENS WEIGHT AS INDICATOR OF AGE IN THE WILD *MICROTUS ARVALIS* POPULATION. *Bull. Acad. Pol. Sci. Ser. Sci. Biol.* 21(5): 331-336, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 17*
[Inst. Ecol. Pol. Acad. Sci., 05-151 Dziekanow Lesny, Warsaw, Poland]

Adamczewska-Andrzejewska, Krystyna. GROWTH, VARIATIONS AND AGE CRITERIA IN *APODEMUS AGRARIUS* (PALLAS, 1771). *Acta Theriol.* 18(19): 353-394, 8 figs. Dec. 1973. In English with Polish summ. *WR 153: 17*
[Inst. Ecol. Pol. Acad. Sci., 05-151 Dziekanow Lesny, Warsaw, Poland]

Babinska, Joanna. ESTIMATION OF RODENT CONSUMPTION IN A MEADOW ECOSYSTEM BELONGING TO THE COMMUNITY OF MOLINIETALIA ORDER. *Ekol. Pol.* 20(46): 747-761, illus. 1972. [From Biol. Abstr. 57(8), 1974.] *WR 153: 17*
[Pol. Akad. Nauk, Dziekanow Lesny, Poland] *"Apodemus agrarius* and *Microtus arvalis."*

Barnard, William P., John V. Ernst, and Carl F. Dixon. COCCIDIA OF THE COTTON RAT, *SIGMODON HISPIDUS*, FROM ALABAMA. *J. Parasitol.* 60(3): 406-414, 7 figs. June 1974. *WR 153: 17*
[Univ. Miami Med. Sch., Miami, Fla.]

Barnes, Allan M., Louis J. Ogden, William S. Archibald, and Eduardo Campos. CONTROL OF PLAGUE VECTORS ON *PEROMYSCUS MANICULATUS* BY USE OF 2% CARBARYL DUST IN BAIT STATIONS. *J. Med. Entomol.* 11(1): 83-87. 28 Mar. 1974. *WR 153: 17*
[Center for Disease Control, P.O. Box 2087, Fort Collins, Colo. 80521]

Best, Troy L., and Gary D. Schnell. BACULAR VARIATION IN KANGAROO RATS (GENUS *DIPODOMYS*). *Am. Midl. Nat.* 91(2): 257-270, 4 figs. Apr. 1974. *WR 153: 17*
[Univ. Okla., Norman 73069]

Bigler, William J., Arnoldo K. Ventura, Arthur L. Lewis, Flora M. Wellings, and N. Joel Ehrenkranz. VENEZUELAN EQUINE ENCEPHALOMYELITIS IN FLORIDA: ENDEMIC VIRUS CIRCULATION IN NATIVE RODENT POPULATIONS OF EVERGLADES HAMMOCKS. *Am. J. Trop. Med. Hyg.* 23(3): 513-521, 3 figs. May 1974. *WR 153: 17*
[Veterinary Public Epidemiology Res. Cent., Jacksonville, Fla. 32201] *"Peromyscus gossypinus* and *Sigmodon hispidus."*

Bobek, Bogusław. NET PRODUCTION OF SMALL RODENTS IN A DECIDUOUS FOREST. *Acta Theriol.* 18(21): 403-434, 11 figs. Dec. 1973. In English with Polish summ. *WR 153: 17*
[Jagiellonian Univ., Krupnicza 50, 30-060 Kraków, Poland]

Canguilhem, B., J.-P. Schieber, and A. Koch. RYTHME CIRCANNUEL PONDERAL DU HAMSTER D'EUROPE *(CRICETUS CRICETUS)*: INFLUENCES RESPECTIVES DE LA PHOTOPERIODE ET DE LA TEMPERATURE EXTERNE SUR SON DEROULEMENT. [CIRCANNUAL BODY WEIGHT RHYTHM OF EUROPEAN HAMSTER *(CRICETUS CRICETUS)*: RESPECTIVE INFLUENCES OF PHOTOPERIOD AND EXTERNAL TEMPERATURE ON THEIR DEVELOPMENT.] *Arch. Sic. Physiol.* 27(1): 67-90, illus. 1973. [From Biol. Abstr. 57(8), 1974. In French with English summ.] *WR 153: 17*
[Inst. Physiol., F 67-Strasbourg, France]

Clarke, S. H., and R. B. Brander. RADIOMETRIC DETERMINATION OF PORCUPINE SURFACE TEMPERATURE UNDER TWO CONDITIONS OF OVERHEAD COVER. *Physiol. Zool.* 46 (3): 230-237, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 18*
[N.Y. State Dep. Environ. Conserv., 409 Exchange Bank Bldg., Olen 14760]

Didow, Larry Alvin. SEASONAL AND GEOGRAPHIC DIFFERENCES IN COLD RESISTANCE AND HEAT PRODUCTION CAPABILITIES OF TWO SPECIES OF *PEROMYSCUS*. *Ph.D. thesis, Carleton Univ.* (Canada). 1972. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974. To obtain a copy order directly from the National Library of Canada at Ottawa.] *WR 153: 18*
"Peromyscus leucopus noveboracensis and *P. maniculatus gracilis."*

Eedy, John Wilson. SEASONAL AND GEOGRAPHIC VARIATIONS IN THE THERMOREGULATORY BEHAVIORS OF TWO SPECIES OF *PEROMYSCUS*. *Ph.D. thesis, Carleton Univ.* (Canada). [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 18*
"Peromyscus leucopus noveboracensis and *P. maniculatus gracilis."*

Esslinger, J. H. TWO NEW SPECIES OF *DIPETALONEMA* (NEMATODA: FILARIOIDEA) FROM NEOTROPICAL ECHIMYID RODENTS. *J. Parasitol.* 60(3): 473-479, 20 figs. June 1974. *WR 153: 18*
[Tulane Med. Cent., New Orleans, La. 70112]

Freeland, W. J. VOLE CYCLES: ANOTHER HYPOTHESIS. *Am. Nat.* 108(960): 239-245. Mar.-Apr. 1974. *WR 153: 18*
[Univ. Mich., Ann Arbor 48104]

French, N. R., B. G. Maza, H. O. Hill, A. P. Aschwanden, and H. W. Kaaz. A POPULATION STUDY OF IRRADIATED DESERT RODENTS. *Ecol. Monog.* 44(1): 45-72, 13 figs. Winter 1974. *WR 153: 18*
[Colo. State Univ., Fort Collins 80521] A population consisting of animals three years old and older, having been subjected to a lifetime of radiation exposure, would likely be incapable of reproduction. Therefore, only in the most unfavorable periods, when reproduction is curtailed by natural factors, will the threshold levels of artificial radiation insult on the natural population be discernible. A rapid turnover of generations prevents a population from accumulating damaging effects of low-level exposure.--From abstr. Courtesy/ Paul A. Stewart.

Ghose, R. K., and S. Guha Roy. MORPHOMETRIC VARIATION IN THE SIKKIM VOLE, *PITYMYS SIKIMENSIS* (HODGSON) FROM DARJEELING DISTRICT, WEST BENGAL, INDIA. *J. Zool. Soc. India* 24(1): 29-38, illus. 1972. [From Biol. Abstr. 57(10), 1974. In English with French summ.] *WR 153: 18*
[Zool. Surv. India, Calcutta, India]

Gliwicz, J. A SHORT CHARACTERISTICS OF A POPULATION OF *PROECHIMYS SEMISPINOSUS* (TOMES, 1860), A RODENT SPECIES OF THE TROPICAL RAIN FOREST. *Bull. Acad. Pol. Sci. Ser. Sci. Biol.* 21(6): 413-418, illus. 1973. [From Biol. Abstr. 57 (11), 1974. In English with Russian summ.] *WR 153: 18*
[Polish Acad. Sci. 05-151 Dziekanow Lesny, Poland]

Hall, Dale O. REDUCING A MATURITY BIAS IN ESTIMATING POPULATIONS: AN EXAMPLE WITH COTTON RATS *(SIGMODON HISPIDUS)*. *J. Mammal.* 55(2): 477-480, 1 fig. May 1974. *WR 153: 18*
[Intermountain Forest & Range Exp. Stn., Boise, Idaho 83706]

Hamar, M., Maia Sutova, and A. Tuta. CERTAINS TRAITS FONDAMENTAUX DE LA DYNAMIQUE DES POPULATIONS DE RONGEURS DES AGROSYSTEMES. [CERTAIN FUNDAMENTAL TRAITS OF POPULATION DYNAMICS OF AGROSYSTEM RODENTS.] *Bull. Acad. Sci. Agric. For.* 1. p. 85-96, illus. 1972. [From Biol. Abstr. 57(7), 1974. In French.] *WR 153: 18*
[Inst. Rech. Prot. Plantes, Bucarest, Romania] *"Mus musculus spicilegus, Apodemus sylvaticus, A. flavicollis,* and *Microtus arvalis."*

Helm, John Daniel III. REPRODUCTIVE BIOLOGY OF *TYLOMYS* AND *OTOTYLOMYS*. *Ph.D. thesis, Mich. State Univ.* 47 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34 (12), 1974.] *WR 153: 19*

Hubert, B., and J. C. Baron. DETERMINATION OF *TATERILLUS* (RODENTIA, GERBILLIDAE) FROM SENEGAL BY SERUM ELECTROPHORESIS. *Anim. Blood Groups Biochem. Genet.* 4(1): 51-54. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 19*
[ORSTOM, Dakar, Senegal] *"Taterillus gracilis* and *T. pygargus."*

Huff, Jane Netting. THE "DISTRESS" CRY OF INFANT DEERMICE, *PEROMYSCUS*: PHYSICAL CHARACTERISTICS, SPECIFIC DIFFERENCES, SOCIAL FUNCTION. *Ph.D. thesis, Mich. State Univ.* 223 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 19*

Imaizumi, Yoshinori. [ON A NEW METHOD OF ANALYSIS OF LOCAL POPULATIONS EMPLOYING THE BINOMIAL DISTRIBUTION, WITH ITS APPLICATION TO THE RED-BACKED VOLES OF HOKKAIDO.] *J. Mammal. Soc. Jap.* 5(6): 213-223. 1973. [From Biol. Abstr. 57 (12), 1974. In Japanese with English summ.] *WR 153: 19*
"Clethrionomys bedfordiae, C. sikotanensis, and *C. rex."*

Ivanter, E. V. [METHOD OF AGE DETERMINATION IN *SICISTA BETULINA* (RODENTIA, DIPOIDEA).] *Zool. Zh.* 52(2): 255-257, illus. 1973. [From Biol. Abstr. 57(8), 1974. In Russian with English summ.] *WR 153: 19*
[Petrozavodsk State Univ., Petrozavodsk, USSR]

Jarvis, Jennifer U. M. THE STRUCTURE OF A POPULATION OF MOLE-RATS, *TACHYORYCTES SPLENDENS*, (RODENTIA: RHIZOMYIDAE). *J. Zool. Proc. Zool. Soc. Lond.* 171 (1): 1-14, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 19*
[Univ. Cape Town, Rondebosch, Cape, South Africa]

Jones, J. Knox, Jr., Hugh H. Genoways, and Timothy E. Lawlor. ANNOTATED CHECKLIST OF MAMMALS OF THE YUCATAN PENINSULA, MEXICO. II. RODENTIA. *Occas. Pap. Mus. Tex. Tech Univ.* no. 22. p. 1-24, 1 fig. 26 Apr. 1974. *WR 153: 19*

Joule, James. EXPERIMENTAL SPECIES REMOVAL: I. COMPARISON OF DISPERSAL STRATEGIES OF *SIGMODON HISPIDUS* AND *REITHRODONTOMYS FULVESCENS*. II. ANALYSIS OF *SIGMODON HISPIDUS* AND *REITHRODONTOMYS FULVESCENS* INTERACTIONS. *Ph.D. thesis, Univ. Houston.* 152 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 19*

Joule, James, and Guy N. Cameron. FIELD ESTIMATION OF DEMOGRAPHIC PARAMETERS: INFLUENCE OF *SIGMODON HISPIDUS* POPULATION STRUCTURE. *J. Mammal.* 55(2): 309-318, 1 fig. May 1974. *WR 153: 19*
[Univ. Colo., Denver 80202]

Kaufman, Donald W. ADAPTIVE COLORATION IN *PEROMYSCUS POLIONOTUS*: EXPERIMENTAL SELECTION BY OWLS. *J. Mammal.* 55(2): 271-283, 3 figs. May 1974. *WR 153: 19*
[Savannah River Ecol. Lab., Aiken, S.C. 29801]

Kirsch, Reinhard. ZUR BIOLOGIE VON *NIPPOSTRONGYLUS MURIS* BEI *MERIONES UNGUICULATUS*. [ON THE BIOLOGY OF *NIPPOSTRONGYLUS MURIS* IN *MERIONES UNGUICULATUS*.] *Z. Parasitenkd.* 42(2): 137-145, illus. 1973. [From Biol. Abstr. 57 (10), 1974. In German with English summ.] *WR 153: 19*
[Farbwerke Hoechst AG, Postfach 800320, D-6230 Frankfurt/Main 80, West Germany]

Lovejoy, Bill P., and Hugh C. Black. GROWTH AND WEIGHT OF THE MOUNTAIN BEAVER, *APLODONTIA RUFA PACIFICA*. *J. Mammal.* 55(2): 364-369, 1 fig. May 1974. *WR 153: 19*
[Ga. Southern Univ., Statesboro 30458]

Meckley, Paul Eugene. STUDIES ON SOME REPRODUCTIVE PHENOMENA OF THE FEMALE MONGOLIAN GERBIL, *(MERIONES UNGUICULATUS)*. *Ph.D. thesis, Univ. Wis.* 156 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 20*

Meserve, Peter L. ECOLOGICAL RELATIONSHIPS OF TWO SYMPATRIC WOODRATS IN A CALIFORNIA COASTAL SAGE SCRUB COMMUNITY. *J. Mammal.* 55(2): 442-447. May 1974. *WR 153: 20*
[Univ. Catolica de Chile, Alameda 340, Of. 43, Santiago, Chile] *"Neotoma fuscipes and N. lepida."*

Meunier, Monique, and Aline Solari. INFLUENCE DE LA PHOTOPERIODE ET DE LA QUALITE DE LA LUZERNE CONSOMMEE SUR LE POIDS DU CRISTALLIN, LA LONGUEUR ET LE POIDS DU CORPS DU CAMPAGNOL DES CHAMPS. [EFFECT OF PHOTOPERIOD AND OF QUALITY OF LUCERNE CONSUMED ON THE WEIGHT OF THE CRYSTALLINE LENS AND THE LENGTH AND BODY WEIGHT OF THE FIELD VOLE.] *Mammalia* 36(4): 638-646, illus. 1972. [From Biol. Abstr. 57(9), 1974. In French with English summ.] *WR 153: 20*
[Inst. Natl. Rech. Agron., 78 Jouy-en-Josas, France]

Mones, Alvaro. ESTUDIOS SOBRE LA FAMILIA HYDROCHOERIDAE (RODENTIA): IV. ELUCIDACION DEL "STATUS" DE *PHUGATHERIUM CATACLISTICUM* AMEGHINO, 1887. [STUDIES ON THE FAMILY HYDROCHOERIDAE (RODENTIA): IV. ELUCIDATION OF THE STATUS OF *PHUGATHERIUM CATACLISTICUM* AMEGHINO, 1887.] *Ameghiniana* 9(4): 390-391. 1972. [From Biol. Abstr. 57(8), 1974. In Spanish with English summ.] *WR 153: 20*
[Mus. Nac. Hist. Nat., Montevideo, Uruguay]

Murakami, H. WATER INTAKE AND ACTIVITY OF RODENTS AND *LEIOTHRIX LUTEA* UNDER CONTINUOUS LIGHT. *Comp. Biochem. Physiol. A Comp. Physiol.* 46(4): 745-753, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 20*
[Kobe Univ., Kobe 650, Hyogo, Japan]

Myrberget, Svein. GEOGRAPHICAL SYNCHRONISM OF CYCLES OF SMALL RODENTS IN NORWAY. *Oikos* 24(2): 220-224, illus. 1973. [From Biol. Abstr. 57(7), 1974. In English with Russian summ.] *WR 153: 20*
[Norw. State Game Res. Inst., N-1432 As-NLH, Norway]

Natalini, John J. CHANGING THE PERIOD OF THE CLOCK OF THE KANGAROO RAT, *DIPODOMYS MERRIAMI*, BY LIGHT PERTURBATIONS. *Trans. Ill. State Acad. Sci.* 66 (1/2): 30-37, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 20*
[Quincy Coll., Quincy, Ill. 62301]

Nyby, John, Patricia Wallace, Keith Owen, and D. D. Thiessen. AN INFLUENCE OF HORMONES ON HOARDING BEHAVIOR IN THE MONGOLIAN GERBIL *(MERIONES UNGUICULATUS)*. *Horm. Behav.* 4(4): 283-288, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 20*
[Univ. Tex., Austin 78712]

Ogston, Charles Walter. TERRITORY AND POPULATION DYNAMICS OF SMALL RODENTS IN THE SONORAN DESERT. *Ph.D. thesis, Princeton.* 79 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 20*
"Perognathus spp. and *Peromyscus eremicus."*

Okia, N. O. THE BREEDING PATTERN OF THE SOFT-FURRED RAT, *PRAOMYS MORIO* IN AN EVERGREEN FOREST IN SOUTHERN UGANDA. *J. Zool. Proc. Zool. Soc. Lond.* 170(4): 501-504, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 20*
[Makerere Univ., Kampala, Uganda]

Owings, Donald H., and Jeffrey Irvine. VOCALIZATION IN MERRIAM'S KANGAROO RAT. *J. Mammal.* 55(2): 465-466, 1 fig. May 1974. *WR 153: 20*
[Univ. Calif., Davis 95616] *"Dipodomys merriami."*

Rogers, J. G., Jr., and G. K. Beauchamp. RELATIONSHIPS AMONG THREE CRITERIA OF PUBERTY IN *PEROMYSCUS LEUCOPUS NOVEBORACENSIS*. *J. Mammal.* 55(2): 461-462. May 1974. *WR 153: 21*
[Patuxent Wildl. Res. Cent., Laurel, Md. 20811]

Savidge, Irvin R. MATERNAL AGGRESSIVENESS AND LITTER SURVIVAL IN DEER MICE *(PEROMYSCUS MANICULATUS BAIRDI)*. *Am. Midl. Nat.* 91(2): 449-451. Apr. 1974. *WR 153: 21*
[N.C. State Univ., Raleigh 27607]

Savidge, Irvin R. SOCIAL FACTORS IN DISPERSAL OF DEER MICE *(PEROMYSCUS MANICULATUS)* FROM THEIR NATAL SITE. *Am. Midl. Nat.* 91(2): 395-405, 1 fig. Apr. 1974. *WR 153: 21*
[N.C. State Univ., Raleigh 27607]

Sawicki, Bogusław, and Stanisława Siuda. MICROSCOPIC STRUCTURE OF THE THYROID GLAND IN *APODEMUS FLAVICOLLIS* (MELCHIOR, 1834) OVER THE YEARLY CYCLE. *Acta Theriol.* 18(24): 459-470 + 3 pls. Dec. 1973. In English with Polish summ. *WR 153: 21*
[Med. School, Kilińskiego 1, 15-089 Białystok, Poland]

Severinghaus, William D., and Larry E. Beasley. A SURVEY OF THE MICROTINE AND ZAPODID RODENTS OF WEST TENNESSEE. *J. Tenn. Acad. Sci.* 48(4): 129-133, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 21*
[Univ. Ill., Urbana 61801] *"Microtus pinetorum, M. ochrogaster, Ondatra zibethicus,* and *Zapus hudsonius."*

Siuda, Stanisława. THE OCCURRENCE OF *X*-ZONE IN THE ADRENAL GLANDS OF TWO RODENT SPECIES. *Acta Theriol.* 18(25): 471-480 + 3 pls. Dec. 1973. In English with Polish summ. *WR 153: 21*
[Med. School, Kilińskiego 1, 15-089 Białystok, Poland] *"Apodemus flavicollis* and *Clethrionomys glareolus."*

Smigel, Barbara W., William Jester, John Blomgren, Kadambi N. Prasad, and Michael L. Rosenzweig. DIETARY ANALYSIS IN GRANIVORES THROUGH THE USE OF NEUTRON ACTIVATION. *Ecology* 55(2): 340-349, 3 figs. Early Spring 1974. *WR 153: 21*
[U.S. Bureau of Mines, Date & Elm Sts., Boulder City, Nev. 89005] *"Tamias striatus* and *Peromyscus maniculatus."*

Smigel, Barbara W., and Michael L. Rosenzweig. SEED SELECTION IN *DIPODOMYS MERRIAMI* AND *PEROGNATHUS PENICILLATUS*. *Ecology* 55(2): 329-339. Early Spring 1974. *WR 153: 21*
[U.S. Bureau of Mines, Date & Elm Sts., Boulder City, Nev. 89005] The two coexisting heteromyid rodents of different sizes selected seeds of the same set of sizes, showing the need for a new theoretical basis for correlation of body size with seed size in heteromyids. Also, the two species used more specialized diets at high seed densities than low, supporting the hypothesis that these seed eaters are flexibly selective.--From abstr. Courtesy/ Paul A. Stewart.

Stupka, Richard C., James E. Brower, and James Henriksen. NEW NORTHEASTERN ILLINOIS LOCALITY RECORDS FOR THE WESTERN HARVEST MOUSE *(REITHRODONTOMYS MEGALOTIS* DYCHEI*)*. *Trans. Ill. State Acad. Sci.* 65(3/4): 112-114, illus. 1972. [From Biol. Abstr. 57(8), 1974.] *WR 153: 21*
[Northern Ill. Univ., DeKalb 60115]

Sullivan, J. A. EFFECTS OF SOCIAL INTERACTION ON THE REPRODUCTIVE TRACTS OF MALE WHITE-FOOTED MICE *(PEROMYSCUS LEUCOPUS)*. *M.S. thesis, Va. Polytech. Inst.* 42 p. 1973. *WR 153: 21*
Courtesy/ Burd S. McGinnes.

Tanaka, Ryo. AN APPROACH TO THE EDGE EFFECT IN PROOF OF THE VALIDITY OF DICE'S ASSESSMENT LINES IN SMALL-MAMMAL CENSUSING. *Res. Popul. Ecol.* 15(2): 121-137, 4 figs. Mar. 1974. In English with Japanese summ. *WR 153: 22*
[Higashi-Jinzenji 17, Kochi 780, Japan] *"Microtus montbelli."*

Terekhina, A. N. [VARIABILITY OF THE WATER VOLE *ARVICOLA TERRESTRIS* L. IN THE VOLGA-AKHTUBINSK FLOOD-PLAIN.] *Byull. Mosk. O-va. Ispyt. Prir. Otd. Biol.* 78(4): 13-26. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with English summ.] *WR 153: 22*

Terman, C. Richard. BEHAVIORAL FACTORS ASSOCIATED WITH CESSATION OF GROWTH OF LABORATORY POPULATIONS OF PRAIRIE DEERMICE. *Res. Popul. Ecol.* 15(2): 138-147. Mar. 1974. In English with Japanese summ. *WR 153: 22*
[Coll. William & Mary, Williamsburg, Va. 23185] *"Peromyscus maniculatus."*

Thiessen, D. D., Fred E. Regnier, Maureen Rice, Michael Goodwin, Nancy Isaacks, and Nancy Lawson. IDENTIFICATION OF A VENTRAL SCENT MARKING PHEROMONE IN THE MALE MONGOLIAN GERBIL *(MERIONES UNGUICULATUS). Science* 184(4132): 83-85, 1 fig. 5 Apr. 1974. *WR 153: 22*
[Univ. Tex., Austin 78712]

Tripathy, D. N., and L. E. Hanson. PATHOGENICITY OF *LEPTOSPIRA GRIPPOTYPHOSA* FOR GERBILS, HAMSTERS, AND VOLES. *Am. J. Vet. Res.* 35(4): 547-549, 1 fig. Apr. 1974. *WR 153: 22*
[Univ. Ill., Urbana 61801] *"Meriones unguiculatus, Mesocricetus auratus,* and *Microtus ochrogaster."*

von Lehmann, E., and H.-E. Schaefer. UNTERSUCHUNGEN VON WALDMÄUSEN *(APODEMUS SYLVATICUS)* UND GELBHALSMÄUSEN *(APODEMUS FLAVICOLLIS)* IN KALABRIEN UND SIZILIEN. [OBSERVATIONS ON *APODEMUS SYLVATICUS* AND *APODEMUS FLAVICOLLIS* IN CALABRIA AND SICILY.] *Ric. Zool. Appl. Caccia Suppl.* 5(6): 175-184, 5 figs. Nov. 1973. In German with Italian and English summ. *WR 153: 22*
[Mus. A. Koenig, Adenaurerallee 150-164, 53 Bonn, West Germany]

Voorhies, M. R. FOSSIL POCKET MOUSE BURROWS IN NEBRASKA. *Am. Midl. Nat.* 91 (2): 492-498, 3 figs. Apr. 1974. *WR 153: 22*
[Univ. Ga., Athens 30602] *"Perognathus* sp."

Warner, Jerry Wayne. THE CYTOGENETICS OF THE PLAINS WOODRAT *(NEOTOMA MICROPUS). Ph.D. thesis, Tex. Tech Univ.* 76 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 22*

Wheat, Bruce E., and John V. Ernst. *EIMERIA GLAUCEAE* SP. N. AND *EIMERIA DUSII* SP. N. (PROTOZOA: EIMERIIDAE) FROM THE EASTERN WOODRAT, *NEOTOMA FLORIDANA*, FROM ALABAMA. *J. Parasitol.* 60(3): 403-405, 2 figs. June 1974. *WR 153: 22*
[Agric. Exp. Stn., Auburn, Ala. 36830]

Wilmot, Patrick Lewis. SEASONAL ALLELIC FREQUENCIES AT THREE POLYMORPHIC ENZYME LOCI AND POPULATION STRUCTURE IN A NEW JERSEY POPULATION OF *PEROMYSCUS LEUCOPUS. Ph.D. thesis, Rutgers Univ.* 74 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974.] *WR 153: 22*

Wright, James Edward. BEHAVIORAL INTERACTIONS OF THE *PEROMYSCUS LEUCOPUS* SPECIES GROUP OF MICE. *Ph.D. thesis, Miss. State Univ.* 53 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 22*

Zippelius, Hanna-Maria. ULTRASCHALL-LAUTE NESTJUNGER MÄUSE. [ULTRA-SONIC CALLS OF NESTLING MICE.] *Behaviour* 49(3-4): 197-204, 16 figs. 1974. In German with English summ. *WR 153: 22*
[Univ. Bonn, Bonn, West Germany] *"Microtus arvalis, Mus musculus, Apodemus flavicollis, Micromys minutus,* and *Clethrionomys* sp."

RATTUS & MUS

Best, L. W. BREEDING SEASON AND FERTILITY OF THE ROOF RAT, *RATTUS RATTUS RATTUS*, IN TWO FOREST AREAS OF NEW ZEALAND. *N.Z. J. Sci.* 16(1): 161-170, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 23*
[CSIRO, Div. Wildl. Res., Alice Springs, Northern Territory, Australia]

Genest-Villard, H. DONNEES ECOLOGIQUES SUR UN "LEGGADA" DES SAVANES INTRA-FORESTIERES DU CENTRE AFRICAIN *MUS OUBANGUII* (RONGEURS, MURIDES). [ECOLOGICAL DATA ON A "LEGGADA" OF THE SAVANNAHS OF CENTRAL AFRICA: *MUS OUBANGUII* (RODENTS, MURIDAE).] *Mammalia* 37(2): 220-230. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 23*
[Mus. Natl. Hist. Nat., 75005, Paris, France]

Hirata, David N., and Roger D. Nass. GROWTH AND SEXUAL MATURATION OF LABORATORY-REARED, WILD *RATTUS NORVEGICUS, R. RATTUS,* AND *R. EXULANS* IN HAWAII. *J. Mammal.* 55(2): 472-474. May 1974. *WR 153: 23*
[U.S. Fish & Wildl. Serv., Box 244, Hilo, Hawaii 96720]

Musser, Guy G. SPECIES-LIMITS OF *RATTUS CREMORIVENTER* AND *RATTUS LANGBIANIS*, MURID RODENTS OF SOUTHEAST ASIA AND THE GREATER SUNDA ISLANDS. *Am. Mus. Novit.* 2525. p. 1-65, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 23*
[Am. Mus. Nat. Hist., New York, N.Y. 10024]

Price, Edward O. SOME BEHAVIORAL DIFFERENCES BETWEEN WILD AND DOMESTIC NORWAY RATS: GNAWING AND PLATFORM JUMPING. *Anim. Learn. Behav.* 1(4): 312-316. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 23*
[State Univ. N.Y., Syracuse 13210]

Spiegel, Richard, Edward Price, and U. William Huck. DIFFERENTIAL VULNERABILITY OF WILD, DOMESTIC, AND HYBRID NORWAY RATS TO PREDATION BY GREAT-HORNED OWLS. *J. Mammal.* 55(2): 386-392. May 1974. *WR 153: 23*
[State Univ. Environ. Sci. & Forestry, Syracuse, N.Y. 13210] *"Rattus norvegicus* and *Bubo virginianus."*

SCIURIDS

Adams, Clark Edward. POPULATION DYNAMICS OF FOX SQUIRRELS, *SCIURUS NIGER*, IN SELECTED AREAS IN SEWARD COUNTY, NEBRASKA. *Ph.D. thesis, Univ. Nebr.* 165 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 23*

Bakko, Eugene Bernard. WATER BALANCE IN FOUR SPECIES OF SCIURID MAMMALS. *Ph.D. thesis, Univ. Minn.* 86 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34 (11), 1974.] *WR 153: 23*
"Sciurus carolinensis, Tamiasciurus hudsonicus, and *Cynomys leucurus* (black-tailed and white-tailed prairie dogs)."

Betts, Burr Joseph. THE ADAPTIVENESS OF THE SOCIAL ORGANIZATION OF A POPULATION OF COLUMBIAN GROUND SQUIRRELS *(SPERMOPHILUS COLUMBIANUS). Ph.D. thesis, Univ. Mont.* 281 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 23*

Brand, Leonard R. TREE NESTS OF CALIFORNIA CHIPMUNKS *(EUTAMIAS). Am. Midl. Nat.* 91(2): 489-491, 1 fig. Apr. 1974. *WR 153: 23*
[Loma Linda Univ., Loma Linda, Calif. 92354] *"Eutamias townsendii* and *E. quadrimaculatus."*

Clark, Timothy William. A FIELD STUDY OF THE ECOLOGY AND ETHOLOGY OF THE WHITE-TAILED PRAIRIE DOG *(CYNOMYS LEUCURUS)*: WITH A MODEL OF *CYNOMYS* EVOLUTION. *Ph.D. thesis, Univ. Wis.* 248 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34 (9), 1974.] *WR 153: 23*

Dunford, Christopher. ANNUAL CYCLE OF CLIFF CHIPMUNKS IN THE SANTA CATALINA MOUNTAINS, ARIZONA. *J. Mammal.* 55(2): 401-416. May 1974. *WR 153: 24*
[Univ. Ariz., Tucson 85721] *"Eutamias dorsalis dorsalis."*

Ivanov, I. V., and A. K. Tembotov. [NEW DATA ON *CITELLUS PYGMEAUS* PALL. FROM THE NORTHERN CAUCASUS.] *Vestn. Zool.* 7(4): 16-20, illus. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with English summ.] *WR 153: 24*
[Kabardino-Balkar State Univ., Nalchik, USSR]

Joseph, Thomas. *HYMENOLEPIS DIMINUTA* IN A GRAY SQUIRREL FROM INDIANA. *J. Wildl. Dis.* 10(2): 164-165. Apr. 1974. *WR 153: 24*
[Ind. Univ., South Bend 46615] *"Sciurus carolinensis."*

Lint, J. B. EFFECT OF SUPPLEMENTAL FOOD SUPPLY ON THE REPRODUCTIVE ATTAINMENT OF THE GRAY SQUIRREL *(SCIURUS CAROLINENSIS). M.S. thesis, Va. Polytech. Inst.* 72 p. 1974. *WR 153: 24*
Courtesy/ Burd S. McGinnes.

Mellace, D. R. HORMONAL INDUCTION OF OVULATION IN CAPTIVE GRAY SQUIRRELS *(SCIURUS CAROLINENSIS). M.S. thesis, Va. Polytech. Inst.* 81 p. 1973. *WR 153: 24*
Courtesy/ Burd S. McGinnes.

Meredith, Don H. LONG DISTANCE MOVEMENTS BY TWO SPECIES OF CHIPMUNKS *(EUTAMIAS)* IN SOUTHERN ALBERTA. *J. Mammal.* 55(2): 466-469. May 1974. *WR 153: 24*
[Univ. Alberta, Edmonton, Alberta, Canada T6G 2E1] *"Eutamias amoenus luteiventris* and *E. minimus oreocetes."*

Michel, Franz. BEITRAEGE ZUR OSTEOLOGIE DER MURMELTIERE: WEITERE STUDIEN AN DEN SCHAEDELN DES PLEISTOZAENEN UND REZENTEN MURMELTIERES *MARMOTA MARMOTA MARMOTA* (LINNE, 1758). [CONTRIBUTIONS TO THE OSTEOLOGY OF *MARMOTA MARMOTA MARMOTA*: FURTHER STUDIES OF THE SKULLS OF PLEISTOCENE AND RECENT SPECIMENS OF *MARMOTA MARMOTA MARMOTA* (LINNE, 1758).] *Mitt. Naturforsch. Ges. Bern* 29. p. 55-62, illus. 1972. [From Biol. Abstr. 57(8), 1974. In German.] *WR 153: 24*
[Göttibach 3, 3600 Thun, Switzerland]

Montgomery, S. D. ENERGY DYNAMICS OF A WOODLOT GRAY SQUIRREL POPULATION. *M.S. thesis, Va. Polytech. Inst.* 89 p. 1973. *WR 153: 24*
Courtesy/ Burd S. McGinnes.

Morhardt, Sylvia Staehle, and David M. Gates. ENERGY-EXCHANGE ANALYSIS OF THE BELDING GROUND SQUIRREL AND ITS HABITAT. *Ecol. Monog.* 44(1): 17-44, 19 figs. Winter 1974. *WR 153: 24*
[Harland Bartholomew & Associates, 165 N. Meramec Ave., St. Louis, Mo. 63105] "The range of body temperatures that animals experience in the field supports the idea that Belding ground squirrels do not necessarily maintain thermal equilibrium for long periods of time. It seems more likely that they allow their body temperatures to fluctuate over a range of 3°-4°C, thereby reducing the metabolic costs that would be involved in maintaining a constant temperature. Microhabitats can be used selectively to maintain environmental conditions that will require the least expenditure of metabolic energy, but the observations from this study show that most of the activity of squirrels need not be directly related to behavioral thermoregulation."--Courtesy/ Paul A. Stewart.

Muul, Illar, and Lim Boo Liat. REPRODUCTIVE FREQUENCY IN MALAYSIAN FLYING SQUIRRELS, *HYLOPETES* AND *PTEROMYSCUS. J. Mammal.* 55(2): 393-400, 2 figs. May 1974. *WR 153: 24*
[Inst. Med. Res., Kuala Lumpur, Malaysia] *"Hylopetes lepidus* and *Pteromyscus pulverulentus."*

Perkins, Billie Loretta. A STUDY OF THE EPIDIDYMIS OF THE FLYING SQUIRREL, *GLAUCOMYS VOLANS. Ph.D. thesis, Southern Ill. Univ.* 117 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 24*

SCIURIDS--Continued

Petrović, V. M., Vera Janić, D. Gripois, and J. Roffi. SEASONAL CHANGES IN PHENYLETHANOLAMINE-N-METHYL TRANSFERASE AND MONOAMINE OXIDASE ACTIVITY IN THE GROUND SQUIRREL *(CITELLUS CITELLUS)*. *Comp. Biochem. Physiol. A Comp. Physiol.* 48(1): 127-131. May 1974. *WR 153: 25*
[Inst. Biol. Res., Belgrade, Yugoslavia]

Rosetti-Bălănescu, C. DESPRE NEPREZENTA MARMOTEI ÎN CARPATII ROMÂNESTI. [ON THE ABSENCE OF *MARMOTA M. MARMOTA* IN THE ROMANIAN CARPATHIANS.] *Ocrotirea Nat.* 17(2): 211-215. 1973. In Romanian with French summ. *WR 153: 25*

Taylor, John W. ENDANGERED SPECIES REPORT: THE DELMARVA FOX SQUIRREL. *Va. Wildl.* 35(6): 22, illus. June 1974. *WR 153: 25*
[Edgewater, Md.]

Thomas, Kim Rutherford. BURROW SYSTEMS OF THE EASTERN CHIPMUNK *(TAMIAS STRIATUS PIPILANS* LOWERY*)* IN LOUISIANA. *J. Mammal.* 55(2): 454-459, 1 fig. May 1974. *WR 153: 25*
[La. State Univ., Baton Rouge 70803]

Turner, Jim L., Robert Boice, and Patrick C. Powers. BEHAVIORAL COMPONENTS OF SHOCK-INDUCED AGGRESSION IN GROUND SQUIRRELS *(CITELLUS TRIDECEMLINEATUS)*. *Anim. Learn. Behav.* 1(4): 278-282, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 25*
[Univ. Calif., 760 Westwood Pl., Los Angeles 90024]

Wistrand, Harry. INDIVIDUAL, SOCIAL, AND SEASONAL BEHAVIOR OF THE THIRTEEN-LINED GROUND SQUIRREL *(SPERMOPHILUS TRIDECEMLINEATUS)*. *J. Mammal.* 55(2): 329-347, 6 figs. May 1974. *WR 153: 25*
[Yale Univ., New Haven, Conn. 06520]

Wunder, Bruce A., and Peter R. Morrison. RED SQUIRREL METABOLISM DURING INCLINE RUNNING. *Comp. Biochem. Physiol. A Comp. Physiol.* 48(1): 153-161, 2 figs. May 1974. *WR 153: 25*
[Colo. State Univ., Fort Collins 80521]

Zimny, Marilyn L. MUCOPOLYSACCHARIDE IN THE GLOMERULAR BASEMENT MEMBRANE OF A HIBERNATOR. *Am. J. Anat.* 138(1): 121-125, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 25*
[La. State Univ. Med. Cent., New Orleans 70112] *"Citellus tridecemlineatus."*

BEAVER

Haladushka, B. S., I. K. Vadkowskaya, and A. M. Famyankow. [DISTRIBUTION AND ABUNDANCE OF THE EUROPEAN BEAVER IN THE BASINS OF THE SOZH AND BEREZINA RIVERS.] *Vyestsi Akad. Navuk B SSR Syer. Biyal. Navuk* 1. p. 100-106. 1973. [From Biol. Abstr. 57(7), 1974. With Russian summ.] *WR 153: 25*
[Acad. Sci. B SSR, Minsk, USSR]

Merzenich, Michael M., Leonard Kitzes, and Lindsay Aitkin. ANATOMICAL AND PHYSIOLOGICAL EVIDENCE FOR AUDITORY SPECIALIZATION IN THE MOUNTAIN BEAVER *(APLODONTIA RUFA)*. *Brain Res.* 58(2): 331-344, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 25*
[Univ. Calif., San Francisco 94122]

FUR ANIMALS, GENERAL

Nichols, James D. A SURVEY OF FURBEARER RESOURCES IN THE ATCHAFALAYA RIVER BASIN, LOUISIANA. *M.S. thesis, La. State Univ.* 184 p. 1973. *WR 153: 25*
Courtesy/ Ann J. Owens.

BEARS

Barigozzi, Claudio, and Italo Barrai. THE NUMBER OF BEARS LIVING IN THE DOLOMITES OF BRENTA. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Nat. Sez. III* 52(3): 412-422. 1972. [From Biol. Abstr. 57(10), 1974. In English with Italian summ.] *WR 153: 26*

Mysterud, Ivar. BEHAVIOUR OF THE BROWN BEAR *(URSUS ARCTOS)* AT MOOSE KILLS. *Norw. J. Zool.* 21(3): 267-272, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 26*
[Univ. Oslo, Oslo 3, Norway]

Øritsland, N. A., J. W. Lentfer, and K. Ronald. RADIATIVE SURFACE TEMPERATURES OF THE POLAR BEAR. *J. Mammal.* 55(2): 459-461, 1 fig. May 1974. *WR 153: 26*
[Univ. Guelph, Guelph, Ontario, Canada N1G 2W1] *"Ursus maritimus."*

Raybourne, Jack W. IN SEARCH OF THE BEAR FACTS. *Va. Wildl.* 35(6): 20-21, illus. June 1974. *WR 153: 26*
Popular account of bear research in Va.

RACCOON, RINGTAIL, COATI

Thorkelson, Jeffrey, and Robert K. Maxwell. DESIGN AND TESTING OF A HEAT TRANSFER MODEL OF A RACCOON *(PROCYON LOTOR)* IN A CLOSED TREE DEN. *Ecology* 55(1): 29-39, 6 figs. Winter 1974. *WR 153: 26*
[Univ. Minn., St. Paul 55101] Courtesy/ Paul A. Stewart.

MUSTELIDS

Baeumler, Walter. UEBER DIE AKTIVITAETSPERIODIK DES ILTISSES *(MUSTELA PUTORIUS)* UND DES HERMELINS *(MUSTELA ERMINEA)* SOWIE UEBER DESSEN FARBWECHSEL. [ON THE ACTIVITY RHYTHM OF THE POLECAT *(MUSTELA PUTORIUS)* AND THAT OF THE ERMINE *(MUSTELA ERMINEA)* AND THEIR COLOR CHANGING.] *Saeugetierkd. Mitt.* 21(1): 31-36, illus. 1973. [From Biol. Abstr. 57(7), 1974. In German with English summ.] *WR 153: 26*
[Univ. Munich, 8 Munich 13, West Germany]

Heidt, Gary A. ANATOMICAL AND BEHAVIORAL ASPECTS OF KILLING AND FEEDING BY THE LEAST WEASEL, *MUSTELA NIVALIS* L. *Proc. Ark. Acad. Sci.* 26. p. 53-54. 1972. *WR 153: 26*
[Univ. Ark., Little Rock 72204] Abstract: The least weasel *(Mustela nivalis)* is a remarkably well adapted predator of mice and other small animals. Each kill is rather stereotyped, in that the weasel grabs the prey by the nape of the neck and bites through the base of the skull and/or throat, using its lithe body to "wrap up" and hold the prey. The least weasel will kill mice successively until it is too exhausted physically to kill more. Mice are always eaten from the head posteriorly until completely consumed.

Heran, Ivan. SOME RESULTS OF INVESTIGATIONS IN BRAIN-CASE CAPACITY OF MUSTELIDAE. *Vestn. Cesk. Spol. Zool.* 37(3): 161-172, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 26*
[Natl. Mus. Vaclavske Manesti 68, 115 79 Prague 1, Czechoslovakia]

Krasovskii, L. I. [ARCHIVAL DOCUMENTS ON SABLES IN THE BELORUSSIAN SSR DURING THE LATE XVIII AND EARLY XIX CENTURIES.] *Byull. Mosk. O-va. Ispyt. Prir. Otd. Biol.* 78(4): 5-12. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with English summ.] *WR 153: 26*

Sokolov, I. I., and A. S. Sokolov. [SOME SPECIFIC FEATURES OF THE LOCOMOTOR ORGANS OF THE BADGER AS A BURROWER.] *Byull. Mosk. O-va. Ispyt. Prir. Otd. Biol.* 77(5): 19-28. 1972. [From Biol. Abstr. 57(8), 1974. In Russian with English summ.] *WR 153: 26*

MUSTELIDS--Continued

Warnock, John E., and Michael J. Warnock. THE LEAST WEASEL, *MUSTELA NIVALIS*, IN WEST-CENTRAL ILLINOIS. *Trans. Ill. State Acad. Sci.* 66(1/2): 115-116. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 27*
[Western Ill. Univ., Macomb 61455]

Wittrock, Darwin D., and Martin J. Ulmer. HELMINTHS OF BADGERS, *TAXIDEA TAXUS* (SCHREBER), IN NORTHWEST IOWA. *Iowa State J. Res.* 48(4): 319-327. May 1974. *WR 153: 27*
[Iowa State Univ., Ames 50010]

DOGS, WOLVES, FOXES

Choquette, L. P. E., G. G. Gibson, E. Kuyt, and A. M. Pearson. HELMINTHS OF WOLVES, *CANIS LUPUS* L., IN THE YUKON AND NORTHWEST TERRITORIES. *Can. J. Zool.* 51 (10): 1087-1091. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 27*
[Canadian Wildl. Serv., Ottawa, K1A 0H3, Ontario, Canada]

Coman, B. J. THE DIET OF RED FOXES, *VULPES VULPES* L., IN VICTORIA. *Australian J. Zool.* 21(3): 391-401, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 27*
[Keith Turnbull Res. Stn., Priv. Bag, P.O., Frankston, Victoria 3199, Australia]

Debbie, John G. USE OF INOCULATED EGGS AS A VEHICLE FOR THE ORAL RABIES VACCINATION OF RED FOXES *(VULPES FULVA)*. *Infect. Immun.* 9(4): 681-683. Apr. 1974. *WR 153: 27*
[N.Y. State Dept. Health, Albany 12201]

Follmann, Erich Herman. COMPARATIVE ECOLOGY AND BEHAVIOR OF RED AND GRAY FOXES. *Ph.D. thesis, Southern Ill. Univ.* 193 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 27*

Knable, Anthony E. SEASONAL TRENDS IN THE UTILIZATION OF MAJOR FOOD GROUPS BY THE RED FOX *(VULPES FULVA)* IN UNION COUNTY, ILLINOIS. *Trans. Ill. State Acad. Sci.* 66(1/2): 113-115, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 27*
[Dep. Nat. Resour., Box 67, Elkins, W. Va. 26241]

Saggese, Ernest P., and Benjamin F. Tullar, Jr. POSSIBLE PREDATION OF A GRAY FOX ON A RED FOX PUP. *N.Y. Fish Game J.* 21(1): 86. Jan. 1974. *WR 153: 27*
"Urocyon cinereoargenteus and *Vulpes fulva."*

Stone, Ward B. HEARTWORMS AND MICROFILARIAE IN A GRAY FOX. *N.Y. Fish Game J.* 21(1): 87. Jan. 1974. *WR 153: 27*
"Urocyon cinereoargenteus."

Taryannikov, V. I. [DISTRIBUTION AND DENSITY OF THE JACKAL IN THE UZBEK SSR.] *Uzb. Biol. Zh.* 17(4): 45-47. 1973. [From Biol. Abstr. 57(11), 1974. In Russian with Uzbek summ.] *WR 153: 27*
[Acad. Sci. Uzbek. SSR, Tashkent, USSR]

CATS

Baytop, Turhan. NEUE BEOBACHTUNGEN UEBER DIE VERBREITUNG DES KLEINASIATISCHEN LEOPARDEN *(PANTHERA PARDUS TULLIANA)* IN DER TUERKEI. [NEW OBSERVATIONS ON THE DISTRIBUTION OF THE ASIA MINOR LEOPARD *(PANTHERA PARDUS TULLIANA)* IN TURKEY.] *Bonn. Zool. Beitr.* 24(3): 183-184. 1973. [From Biol. Abstr. 57(9), 1974. In German and Turkish.] *WR 153: 27*
[Univ. Istanbul, Istanbul, Turkey]

CATS--Continued

Hall, Harlan T. AN ECOLOGICAL STUDY OF THE BOBCAT IN SOUTHERN LOUISIANA. *M.S. thesis, La. State Univ.* 135 p. 1973. *WR 153: 28*
"Lynx rufus."--Courtesy/ Ann J. Owens.

McCord, Chet M. SELECTION OF WINTER HABITAT BY BOBCATS *(LYNX RUFUS)* ON THE QUABBIN RESERVATION, MASSACHUSETTS. *J. Mammal.* 55(2): 428-437. May 1974. *WR 153: 28*
[Texas Instruments, P.O. Box 366, Northfield, Mass. 01360]

Sealander, John A., and Philip S. Gipson. STATUS OF THE MOUNTAIN LION IN ARKANSAS. *Proc. Ark. Acad. Sci.* 27. p. 38-41, 1 fig. 1973. *WR 153: 28*
[Univ. Ark., Fayetteville 72701] Abstract: Two authenticated kill records of the mountain lion, *Felis concolor*, in Arkansas are reported as well as numerous reliable sight records spanning an approximately 30-year period. Distribution of sightings in the state is discussed in relation to an expanding deer population. The cougar probably never was exterminated in Arkansas but it still may be considered endangered.

Volf, Jiri. EXIGENCES ALIMENTAIRES ET DENTITION DES JEUNES DE TROIS ESPECES DE FELIDES. [NUTRITIONAL REQUIREMENTS AND DENTITION OF THE YOUNG OF 3 FELID SPECIES.] *Mammalia* 36(4): 683-686, illus. 1972. [From Biol. Abstr. 57(7), 1974. In French with English summ.] *WR 153: 28*
[Mus. Natl. Hist. Nat., 55 Rue de Buffon, Paris 5, France] *"Felis s. silvestris, Puma c. concolor,* and *Panthera tigris sumatrae."*

BIG GAME, GENERAL

Barros, Homero Morales, Marcio Rubens G. Kuchembuck, and Mauro Rodriques De Oliveira. MORTALIDADE DE BEZERROS ZEBUS-RAZÃO SEXO. [ZEBU CALVES MORTALITY: SEX RATIO.] *Arq. Esc. Vet. Univ. Fed. Minas Gerais* 24(1): 45-48. 1972. [From Biol. Abstr. 57(7), 1974. In Portuguese with English summ.] *WR 153: 28*
[Fac. Cienc. Med. Biol. Botucatu, Caixa Postal 102, 18600 Botucatu, Brazil]

Davidson, Mavis M. CHARACTERISTICS, LIBERATION AND DISPERSAL OF SIKA DEER *(CERVUS NIPPON)* IN NEW ZEALAND. *N.Z. J. For. Sci.* 3(2): 153-180. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 28*
[N.Z. For. Serv., Wellington, New Zealand]

Fadeev, E. V. [POPULATION DYNAMICS OF *SUS SCROFA* IN THE EUROPEAN PART OF THE RUSSIAN SFSR.] *Zool. Zh.* 52(8): 1214-1219, illus. 1973. [From Biol. Abstr. 57 (10), 1974. In Russian with English summ.] *WR 153: 28*
[Moscow State Univ., Moscow, USSR]

Ferrar, A. A. WILDLIFE UTILISATION IN RHODESIA. PART 1: A PLANNING SCHEDULE FOR WILDLIFE UTILISATION ON A RHODESIAN CATTLE RANCH. *Rhodesia Sci. News* 7(1): 12-16, illus. Jan. 1973. *WR 153: 28*
[Rhodesia Dep. Natl. Parks & Wildl. Management, Salisbury, Rhodesia] "Game ranching consists of harnessing the full productive potential of an existing multi-species natural plant community by means of harvesting the indigenous large herbivores on the basis of maximum sustained yield. The deliberate simplicity of this definition is intended to put the game ranching concept in its true perspective, but it should not detract from the complexity of its successful implementation."

Ferrar, A. A. WILDLIFE UTILISATION IN RHODESIA. PART 2: SOME ECONOMIC AND ECOLOGICAL ATTRIBUTES OF RHODESIA'S LARGE MAMMALS. *Rhodesia Sci. News* 7(1): 17-19, illus. Jan. 1973. *WR 153: 28*
[Rhodesia Dep. Natl. Parks & Wildl. Management, Salisbury, Rhodesia] A summary of the attributes of 15 important species with information on several others.

Gilbert, Barrie K. SCENT MARKING AND TERRITORIALITY IN PRONGHORN *(ANTILOCAPRA AMERICANA)* IN YELLOWSTONE NATIONAL PARK. *Mammalia* 37(1): 25-33, illus. 1973. [From Biol. Abstr. 57(8), 1974. In English with French summ.] *WR 153: 29*
[Utah State Univ., Logan]

Hebert, Daryll Marvin. ALTITUDINAL MIGRATION AS A FACTOR IN THE NUTRITION OF BIGHORN SHEEP. *Ph.D. thesis, Univ. British Columbia.* 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 29*

Henderson, D. S. THE ARABIAN ORYX: A DESERT TRAGEDY. *Natl. Parks Conserv. Mag.* 48(5): 15-21, illus. May 1974. *WR 153: 29*
One of a series on endangered species.

Hirst, Stanley Malcolm. HABITAT SELECTION BY LARGE WILD UNGULATES AND SOME ASPECTS OF THE ENERGY FLOW IN A SUB-TROPICAL AFRICAN SAVANNA WOODLAND ECOSYSTEM. *Ph.D. thesis, Utah State Univ.* 187 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 29*

Karpen, George. OF MOOSE AND MEN. *N. Dak. Outdoors* 36(12): 2-4, illus. June 1974. *WR 153: 29*
[N. Dak. Game & Fish Dep., Carrington] *Alces alces* research in N. Dak.

Knight, Robert A. *TRICHURIS OREAMNOS* SP. N. FROM THE MOUNTAIN GOAT, *OREAMNOS AMERICANUS* (BLAINVILLE), IN BRITISH COLUMBIA, CANADA, AND A KEY TO TRICHURIDS IN NORTH AMERICAN RUMINANTS. *J. Parasitol.* 60(2): 275-279, 4 figs. Apr. 1974. *WR 153: 29*
[Agric. Res. Serv., Beltsville, Md. 20705]

Kruska, Dieter. CEREBRALISATION HIRNEVOLUTION UND DOMESTIKATIONSBEDINGTE HIRNGROESSENAENDERUNGEN INNERHALB DER ORDNUNG PERISSODACTYLA OWEN, 1848 UND EIN VERGLEICH MIT DER ORDNUNG ARTIODACTYLA OWEN, 1848. [CEREBRALIZATION, EVOLUTION OF THE BRAIN AND CHANGES IN BRAIN SIZE AS A CAUSE OF DOMESTICATION WITHIN THE ORDER PERISSODACTYLA OWEN, 1848 AND A COMPARISON WITH THE ORDER ARTIODACTYLA OWEN, 1848.] *Z. Zool. Syst. Evolutionsforsch.* 11(2): 81-103, illus. 1973. [From Biol. Abstr. 57(8), 1974. In German with French and English summ.] *WR 153: 29*
[Tieraerztl. Hochsch., Bischofsholer Damm 15, D-3000 Hannover, West Germany] "Including *Acrocodia indicus, Tapirus terrestris,* and *Ceratotherium simum.*"

Lamprey, H. F., G. Halevy, and S. Makacha. INTERACTIONS BETWEEN *ACACIA*, BRUCHID SEED BEETLES AND LARGE HERBIVORES. *E. Afr. Wildl. J.* 12(1): 81-85, 1 fig. Mar. 1974. *WR 153: 29*
[African Wildl. Leadership Foundation, Box 48177, Nairobi, Kenya]

Meagher, Mary. YELLOWSTONE'S BISON: A UNIQUE WILD HERITAGE. *Natl. Parks Conserv. Mag.* 48(5): 9-14, illus. May 1974. *WR 153: 29*
The only remaining wild bison in the United States are threatened by a questionable brucellosis eradication program.

Mitchell, Brian, and G. A. Lincoln. CONCEPTION DATES IN RELATION TO AGE AND CONDITION IN TWO POPULATIONS OF RED DEER IN SCOTLAND. *J. Zool. Proc. Zool. Soc. Lond.* 171(2): 141-152, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 29*
[Nat. Conservancy, Kincardines, Scotland] *"Cervus elaphus."*

Owen, Jennifer. BEHAVIOUR AND DIET OF A CAPTIVE ROYAL ANTELOPE *NEOTRAGUS PYGMAEUS* L. *Mammalia* 37(1): 56-65, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 29*
[Univ. Lund, S-223 62 Lund, Sweden]

Owen-Smith, Rupert Norman. THE BEHAVIOURAL ECOLOGY OF THE WHITE RHINOCEROS. *Ph.D. thesis, Univ. Wis.* 863 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34 (10), 1974.] *WR 153: 30*

Parks, John B., and J. J. England. A SEROLOGICAL SURVEY FOR SELECTED VIRAL INFECTIONS OF ROCKY MOUNTAIN BIGHORN SHEEP. *J. Wildl. Dis.* 10(2): 107-110. Apr. 1974. *WR 153: 30*
[Colo. State Univ., Fort Collins 80521] *"Ovis canadensis."*

Peek, James M. INITIAL RESPONSE OF MOOSE TO A FOREST FIRE IN NORTHEASTERN MINNESOTA. *Am. Midl. Nat.* 91(2): 435-438. Apr. 1974. *WR 153: 30*
[Univ. Idaho, Moscow 83843] *"Alces alces."*

Pelosse, J. L. SIGNALISATION ACOUSTIQUE ANIMAL ET CRIS HUMAINS DANS LES RELATIONS ENTRE LE RENNE D'ELEVAGE LAPON *(RANGIFER TARANDUS* L.) ET L'HOMME. [ANIMAL ACOUSTIC SIGNALS AND HUMAN CRIES IN THEIR SIGNIFICANCE FOR THE RELATIONSHIP BETWEEN THE LAPLAND REINDEER AND HERDSMEN.] *Z. Tierpsychol.* 32(2): 199-208. 1973. [From Biol. Abstr. 57(12), 1974. In French with English summ.] *WR 153: 30*
"Rangifer tarandus."

Pfeffer, P., and R. Settimo. DEPLACEMENTS SAISONNIERS ET COMPETITION VITALE ENTRE MOUFLONS, CHAMOIS ET BOUQUETINS DANS LA RESERVE DU MERCANTOUR (ALPES MARITIMES). [SEASONAL DISPLACEMENTS AND COMPETITION BETWEEN CORSICAN SHEEP, CHAMOIS AND IBEX IN THE RESERVE OF MERCANTOUR (ALPES-MARITIMES).] *Mammalia* 37 (2): 203-219, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 30*
[Mus. Natl. Hist. Nat., 75005, Paris, France]

Quenet, Robin Vincent. GROWTH SIMULATION OF TREES, SHRUBS, GRASSES AND FORBS ON A BIG-GAME WINTER RANGE. *Ph.D. thesis, Univ. British Columbia.* 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 30*

Qvortrup, S. A., and L. H. Blankenship. FOOD HABITS OF KLIPSPRINGER. *E. Afr. Wildl. J.* 12(1): 79-80. Mar. 1974. *WR 153: 30*
[Kenya Wildl. Manage. Project, P.O. Box 30559, Nairobi, Kenya] *"Oreotragus oreotragus."*

Smith, Michael C. T. BIOLOGY AND MANAGEMENT OF THE WAPITI *(CERVUS ELAPHUS NELSONI)* OF FIORDLAND, NEW ZEALAND. *Ph.D. thesis, Cornell Univ.* 282 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 30*

Steinborn, Wolfgang. BEOBACHTUNGEN ZUM VERHALTEN DES ALPENSTEINBOCKS, *CAPRA IBEX IBEX* LINNE, 1758. [OBSERVATIONS ON THE BEHAVIOR OF *CAPRA IBEX IBEX* LINNE, 1758.] *Saeugetierkd. Mitt.* 21(1): 37-65, illus. 1973. [From Biol. Abstr. 57 (8), 1974. In German with English summ.] *WR 153: 30*
[Fissenknick, 4932 Bad Meinberg, West Germany]

Troncy, P. M., M. Graber, and J. Thal. *PHACOCHOERUS AETHIOPICUS* (PALLAS), HOTE NOUVEAU DE *FASCIOLA GIGANTICA* COBBOLD, 1855. [*PHACOCHOERUS AETHIOPICUS* (PALLAS), A NEW HOST FOR *FASCIOLA GIGANTICA* COBBOLD, 1855.] *Bull. Soc. Pathol. Exot.* 66(1): 129-133. 1973. [From Biol. Abstr. 57(8), 1974. In French with English summ.] *WR 153: 30*
[Inst. Elev. Med. Vet. Pays Trop., Lab. Farcha, Fort-Lamy, Chad]

Verster, Anna, and J. D. Bezuidenhout. *TAENIA MULTICEPS* LARVA FROM A GEMSBOK. *Onderstepoort J. Vet. Res.* 39(2): 123. 1972. [From Biol. Abstr. 57(9), 1974.] *WR 153: 30*
[Vet. Res. Inst., Onderstepoort, South Africa]

BIG GAME, GENERAL--Continued

Warren, H. B. ASPECTS OF THE BEHAVIOUR OF THE IMPALA MALE, *AEPYCEROS MELAMPUS* DURING THE RUT. *Arnoldia* 6(27): 1-9, 1 fig. 6 Mar. 1974. *WR 153: 31*
[Univ. Rhodesia, Salisbury, Rhodesia]

DEER (Odocoileus)

Coe, R. J. THE CAUSE OF BIAS IN WHITE-TAILED DEER KILL DATA. *M.S. thesis, Va. Polytech. Inst.* 83 p. 1974. *WR 153: 31*
Courtesy/ Burd S. McGinnes.

Dean, R. E., and A. H. Winward. AN INVESTIGATION INTO THE POSSIBILITY OF TANSY RAGWORT POISONING OF BLACK-TAILED DEER. *J. Wildl. Dis.* 10(2): 166-169. Apr. 1974. *WR 153: 31*
[Oreg. State Univ., Corvallis 97331] *"Odocoileus hemionus columbianus."*

deCalesta, David Sherman. STARVING AND REFEEDING MULE DEER. *Ph.D. thesis, Colo. State Univ.* 123 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 31*
"Odocoileus hemionus."

Forrester, Donald J., W. Jape Taylor, and Pamela P. Humphrey. STRONGYLOIDIASIS IN WHITE-TAILED DEER FAWNS IN FLORIDA. *J. Wildl. Dis.* 10(2): 146-148. Apr. 1974. *WR 153: 31*
[Univ. Fla., Gainesville 32611] *"Odocoileus virginianus."*

Gavitt, J. D. DISTURBANCE EFFECT OF FREE-RUNNING DOGS ON DEER REPRODUCTION. *M.S. thesis, Va. Polytech. Inst.* 53 p. 1973. *WR 153: 31*
Courtesy/ Burd S. McGinnes.

Hoch, Alfred Lynn. EFFECTS OF LONE STAR TICK (ACARINA: IXODIDAE) PARASITISM AND THEILERIASIS ON WHITE-TAILED DEER FAWN SURVIVAL AND HEMATOLOGY. *Ph.D. thesis, Okla. State Univ.* 73 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34 (10), 1974.] *WR 153: 31*
"Odocoileus virginianus."

Hoff, Gerald L., Daniel O. Trainer, and Michael M. Jochim. BLUETONGUE VIRUS AND WHITE-TAILED DEER IN AN ENZOOTIC AREA OF TEXAS. *J. Wildl. Dis.* 10(2): 158-163. Apr. 1974. *WR 153: 31*
[Univ. Wis., Madison 53706] *"Odocoileus virginianus texanus."*

Jackson, Lawrence W. CARRYING CAPACITY OF THE DEER RANGE IN THE TOWN OF MALONE. *N.Y. Fish Game J.* 21(1): 47-57, 1 fig. Jan. 1974. *WR 153: 31*
"Odocoileus virginianus."

Jacobsen, Nadine Louise Klecha. PHYSIOLOGY, BEHAVIOR, AND THERMAL TRANSACTIONS OF WHITE-TAILED DEER. *Ph.D. thesis, Cornell Univ.* 364 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 31*
"Odocoileus virginianus."

Lenker, D. K. A STUDY OF SPERMATOZOAN RESERVES OF MALE WHITE-TAILED DEER AND OF THE REPRODUCTIVE PHYSIOLOGY IN FAWNS. *M.S. thesis, Va. Polytech. Inst.* 58 p. 1973. *WR 153: 31*
Courtesy/ Burd S. McGinnes.

McCulloch, Clay Y., and Philip J. Urness. DEER NUTRITION IN ARIZONA CHAPARRAL AND DESERT HABITATS. *Ariz. Game Fish Dep. & Rocky Mountain For. Range Exp. Stn. Spec. Rep.* no. 3. v + 68 p., illus. Sept. 1973. *WR 153: 31*
[Ariz. Game & Fish Dep., Fredonia] Part I: Seasonal diets of mule and white-tailed deer, Clay Y. McCulloch; Part II: Chemical analyses and in vitro digestibility of seasonal deer forages, Philip J. Urness; and Part III. Nutritional value of seasonal deer diets, P. J. Urness and C. Y. McCulloch.

Monson, Ruth A., Ward B. Stone, Bruce L. Weber, and Frances J. Spadaro. COMPARISON OF RINEY AND TOTAL KIDNEY FAT TECHNIQUES FOR EVALUATING THE PHYSICAL CONDITION OF WHITE-TAILED DEER. *N.Y. Fish Game J.* 21(1): 67-72, 3 figs. Jan. 1974. *WR 153: 32*

Abstract: Two methods for determining kidney fat levels (the Riney technique and total perirenal fat) were compared for 257 white-tailed deer from New York. It was concluded that the most applicable index is one based on total perirenal fat.

Owens, Ricky D. THE EFFECT OF A DIET OF WINTER PASTURE GRASSES ON GROWTH AND DEVELOPMENT OF WHITE-TAILED DEER. *M.S. thesis, La. State Univ.* 64 p. 1973. *WR 153: 32*

"Odocoileus virginianus."--Courtesy/ Ann J. Owens.

Reed, E. T. EFFECTS OF FALL ORPHANING ON WHITE-TAILED DEER FAWNS. *M.S. thesis, Va. Polytech. Inst.* 43 p. 1974. *WR 153: 32*

Courtesy/ Burd S. McGinnes.

Regelin, Wayne L., Olof C. Wallmo, Julius Nagy, and Donald R. Dietz. EFFECT OF LOGGING ON FORAGE VALUES FOR DEER IN COLORADO. *J. For.* 72(5): 282-285, 2 figs. May 1974. *WR 153: 32*

[Rocky Mountain Forest & Range Exp. Stn., Fort Collins, Colo.] Abstract: Plant species important for deer forage were collected three times in summer 1970 from clearcut and uncut strips in a lodgepole pine *(Pinus contorta)*-spruce-fir *(Picea engelmannii-Abies lasiocarpa)* forest 15 years after logging. Crude protein content, moisture content, and *in vitro* digestibility within a collection date did not differ statistically between clearcut and uncut strips. Crude protein and moisture content declined significantly between dates, but *in vitro* digestibility did not change as the plants matured. Because of greater species diversity and plant productivity, and because deer spent more time grazing in clearcut strips, they obtained over twice as much of their crude protein and digestible dry matter there.

Salwasser, Hal. COYOTE SCATS AS AN INDICATOR OF TIME OF FAWN MORTALITY IN THE NORTH KINGS DEER HERD. *Calif. Fish Game* 60(2): 84-87, 2 figs. Apr. 1974. *WR 153: 32*

[Univ. Calif., Berkeley] *"Canis latrans* and *Odocoileus hemionus californicus."*

Sheldon, John J., and Keith Causey. DEER HABITAT MANAGEMENT: USE OF JAPANESE HONEYSUCKLE BY WHITE-TAILED DEER. *J. For.* 72(5): 286-287. May 1974. *WR 153: 32*

[Auburn Univ., Auburn, Ala.] *"Odocoileus virginianus."*

Skeen, J. E. THE RELATIONSHIP OF CERTAIN RUMINO-RETICULAR AND BLOOD VARIABLES TO THE NUTRITIONAL STATUS OF WHITE-TAILED DEER. *M.S. thesis, Va. Polytech. Inst.* 97 p. 1974. *WR 153: 32*

Courtesy/ Burd S. McGinnes.

Sotala, Dennis J. KEY TO PLANT FRAGMENTS FOUND IN WHITE-TAILED DEER RUMINA FROM SOUTHERN INDIANA. *Purdue Univ. Agr. Exp. Stn. Bull.* SB18. 33 p., 92 figs. Aug. 1973. *WR 153: 32*

[Purdue Univ., West Lafayette, Ind. 47907]

Townsend, Thomas William. FACTORS AFFECTING INDIVIDUAL RANK IN THE SOCIAL HIERARCHY OF PENNED WHITE-TAILED DEER *(ODOCOILEUS VIRGINIANUS BOREALIS). Ph.D. thesis, Univ. Guelph.* 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 32*

Walls, M. L. A DYNAMIC WHITE-TAILED DEER POPULATION SIMULATOR AND LESSONS FROM ITS USE. *M.S. thesis, Va. Polytech. Inst.* 166 p. 1974. *WR 153: 32*

Courtesy/ Burd S. McGinnes.

MAMMALS--MARINE

Bonnell, Michael L., and Robert K. Selander. ELEPHANT SEALS: GENETIC VARIATION AND NEAR EXTINCTION. *Science* 184(4139): 908-909. 24 May 1974. *WR 153: 33*
[Univ. Calif., Santa Cruz 95060] *"Mirounga angustirostris."*

Braham, Howard W. LEAD IN THE CALIFORNIA SEA LION *(ZALOPHUS CALIFORNIANUS). Environ. Pollut.* 5(4): 253-258. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 33*
[Calif. Polytech. State Univ., San Luis Obispo 93401]

Braham, Howard W. THE CALIFORNIA SEA LION ON ISLANDS OFF THE COAST OF SAN LUIS OBISPO COUNTY, CALIFORNIA. *Calif. Fish Game* 60(2): 79-83, 1 fig. Apr. 1974. *WR 153: 33*
[Calif. Polytech. State Univ., San Luis Obispo 93401] *"Zalophus californianus."*

Brownell, Robert L., Robert L. DeLong, and Ralph W. Schreiber. PINNIPED POPULATIONS AT ISLAS DE GUADALUPE, SAN BENITO, CEDROS, AND NATIVIDAD, BAJA CALIFORNIA, IN 1968. *J. Mammal.* 55(2): 469-472. May 1974. In English with Spanish summ. *WR 153: 33*
[Natl. Mus. Nat. Hist., Washington, D.C. 20560] *"Zalophus californianus, Arctocephalus townsendi, Phoca vitulina,* and *Mirounga angustirostris."*

Chelnokov, F. G. [MOVEMENT OF FUR SEALS AT ROOKERIES OF MEDNOE ISLAND.] *Tr. Atl. Nauchno-Issled. Inst. Rybn. Khoz. Okeanogr.* 39. p. 151-156. 1971. [From Biol. Abstr. 57(8), 1974. Transl. from Russian of Ref. Zh. Biol. 1972, no. 12I643.] *WR 153: 33*

Christensen, Ivar. AGE DETERMINATION, AGE DISTRIBUTION AND GROWTH OF BOTTLENOSE WHALES, *HYPEROODON AMPULLATUS* (FORSTER), IN THE LABRADOR SEA. *Norw. J. Zool.* 21(4): 331-341, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 33*
[Inst. Mar. Res., P.O. Box 2906, N-5011 Bergen, Norway]

Contos, Suzanne Montgomery. THE PORPOISE AND THE TUNA: TALE OF TWO SPECIES. *Mar. Technol. Soc. J.* 7(5): 3-7, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 33*
As part of the present concern over preservation of the natural environment, one of the most emotional issues is the exploitation of marine mammals. One of the most disturbing examples of unnecessary waste has been the accidental drowning of large numbers of porpoise during the course of tuna fishing operations. Spurred by enactment of the Marine Mammal Protection Act of 1972, a major government/industry effort has been launched to reduce the number of porpoise killed in fishing operations.

Fiscus, Clifford H., and Dale W. Rice. GIANT SQUIDS, *ARCHITEUTHIS* SP., FROM STOMACHS OF SPERM WHALES CAPTURED OFF CALIFORNIA. *Calif. Fish Game* 60(2): 90-93, 1 fig. Apr. 1974. *WR 153: 33*
[Natl. Marine Fisheries Serv., Naval Support Activity Bldg. 192, Seattle, Wash. 98115] *"Physeter catodon."*

Gray, Kenneth N., and Richard H. Conklin. MULTIPLE BIRTHS AND CARDIAC ANOMALIES IN THE BOTTLE-NOSED DOLPHIN. *J. Wildl. Dis.* 10(2): 155-157. Apr. 1974. *WR 153: 33*
[Sea-Arama Marineworld, Galveston, Tex. 77550] *"Tursiops truncatus."*

Hsu, Chao-Kuang, Edward C. Melby, Jr., and Norman H. Altman. *EIMERIA PHOCAE* SP. N. FROM THE HARBOR SEAL *(PHOCA VITULINA CONCOLOR). J. Parasitol.* 60(3): 399-402, 10 figs. June 1974. *WR 153: 33*
[Johns Hopkins Univ., Baltimore, Md. 21205]

Jortner, Bernard S. NEUROPATHOLOGIC OBSERVATIONS OF HEAD TRAUMA IN THE NORTHERN FUR SEAL. *J. Wildl. Dis.* 10(2): 121-129, 5 figs. Apr. 1974. *WR 153: 33*
[N.J. Med. School, Newark 07103] *"Callorhinus ursinus."*

LeBoeuf, Burney J., David G. Ainley, and T. James Lewis. ELEPHANT SEALS ON THE FARALLONES: POPULATION STRUCTURE OF AN INCIPIENT BREEDING COLONY. *J. Mammal.* 55(2): 370-385, 4 figs. May 1974. *WR 153: 34*
[Univ. Calif., Santa Cruz 95064] *"Mirounga angustirostris."*

Lisitsina, T. Yu. [BEHAVIOR AND ACOUSTIC SIGNALS OF *CALLORHINUS URSINUS* AT LAIRS.] *Zool. Zh.* 52(8): 1220-1228, illus. 1973. [From Biol. Abstr. 57(12), 1974. In Russian with English summ.] *WR 153: 34*
[Acad. Sci. USSR, Moscow, USSR]

Matsuura, D. T., and G. C. Whittow. EVAPORATIVE HEAT LOSS IN THE CALIFORNIA SEA LION AND HARBOR SEAL. *Comp. Biochem. Physiol. A Comp. Physiol.* 48(1): 9-20, 8 figs. May 1974. *WR 153: 34*
[Univ. Hawaii, Honolulu 96822] *"Zalophus californianus* and *Phoca vitulina."*

Mercer, M. C. OBSERVATIONS ON DISTRIBUTION AND INTRA-SPECIFIC VARIATION IN PIGMENTATION PATTERNS OF ODONTOCETE CETACEA IN THE WESTERN NORTH ATLANTIC. *J. Fish. Res. Board Can.* 30(8): 1111-1130, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 34*
[Fish. Res. Board Canada, Biol. Stn., Saint John's, Newfoundland, Canada]
"Including *Monodon monoceros, Stenella coeruleoalba, Delphinapterus leucas,* and *Phocoena phocoena.*"

Mitchell, Janet. DETERMINATION OF RELATIVE AGE IN THE DUGONG *DUGONG DUGONG* (MUELLER) FROM A STUDY OF SKULLS AND TEETH. *Zool. J. Linn. Soc.* 53(1): 1-23, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 34*
[Univ. Mus. Zool., Downing St., Cambridge, England]

Nelson, Gary J. THE LIPID COMPOSITION OF THE BLOOD OF MARINE MAMMALS-III: THE FATTY ACID COMPOSITION OF PLASMA AND ERYTHROCYTES OF ATLANTIC BOTTLENOSE DOLPHIN, *TURSIOPS TRUNCATUS. Comp. Biochem. Physiol. B Comp. Biochem.* 46(2): 257-268, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 34*
[Univ. Calif., Livermore 94550]

Shaughnessy, Peter Douglas. BIOCHEMICAL IDENTIFICATION OF POPULATIONS OF THE HARBOR SEAL, *PHOCA VITULINA. Ph.D. thesis, Univ. Alaska.* 190 p. 1974. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 34*

Smith, Thomas G. POPULATION DYNAMICS OF THE RINGED SEAL IN THE CANADIAN EASTERN ARCTIC. *Fish. Res. Board Can. Bull.* 181. p. 1-55, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 34*
[Fish. Res. Board Can., Arctic Biol. Stn., Sainte Anne de Bellevue, Quebec, Canada] *"Phoca hispida."*

Sukhoruchenko, M. N. [FREQUENCY DISCRIMINATION IN DOLPHINS *(PHOCOENA PHOCOENA).*] *Fiziol. Zh. SSSR Im. I. M. Sechenova* 59(8): 1205-1210, illus. 1973. [From Biol. Abstr. 57(8), 1974. In Russian with English summ.] *WR 153: 34*

Watkins, William A., and William E. Schevill. LISTENING TO HAWAIIAN SPINNER PORPOISES, *STENELLA* CF. *LONGIROSTRIS*, WITH A THREE-DIMENSIONAL HYDROPHONE ARRAY. *J. Mammal.* 55(2): 319-328, 4 figs. May 1974. *WR 153: 34*
[Woods Hole Oceanogr. Inst., Woods Hole, Mass. 02543]

OTHER MAMMALS

Archer, Michael. REGURGITATION OR MERCYISM IN THE WESTERN NATIVE CAT, *DASYURUS GEOFFROII*, AND THE RED-TAILED WAMBENGER, *PHASCOGALE CALURA* (MARSUPIALIA, DASYURIDAE). *J. Mammal.* 55(2): 448-452, 2 figs. May 1974. *WR 153: 34*
[Queensland Mus., Gregory Terrace, Fortitude Valley, Queensland, Australia 4006]

Baldwin, John D., and Janice L. Baldwin. INTERACTIONS BETWEEN ADULT FEMALE AND INFANT HOWLING MONKEYS *(ALOUATTA PALLIATA)*. *Folia Primatol.* 20(1): 27-71, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 35*
[Univ. Calif., Santa Barbara 93106]

Cabral, J. Crawford. AS GENETAS DA AFRICA CENTRAL (REPUBLICA DO ZAIRE, RWANDA E BURUNDI). [THE GENETS OF CENTRAL AFRICA (REPUBLICS OF ZAIRE, RWANDA AND BURUNDI).] *Bol. Inst. Invest. Cient. Angola* 7(2): 7-27, illus. 1970. [From Biol. Abstr. 57(11), 1974. In Portuguese with French and English summ.] *WR 153: 35*
[Inst. Invest. Cient., Luanda, Angola] Taxonomy and distribution.

Coimbra-Filho, Adelmar F., and Russell A. Mittermeier. DISTRIBUTION AND ECOLOGY OF THE GENUS *LEONTOPITHECUS* LESSON, 1840 IN BRAZIL. *Primates* 14(1): 47-66, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 35*
[Rua Artur Araripe 60/902, Gaeva, Guanabara, Brazil]

Crawford Cabral, J. A *SURICATA* DO IONA, SUBSPECIE NOVA. [THE *SURICATA* OF IONA, A NEW SUBSPECIES.] *Bol. Inst. Invest. Cient. Angola* 8(2): 65-83, illus. 1971. [From Biol. Abstr. 57(9), 1974. In Portuguese with French and English summ.] *WR 153: 35*
[Inst. Invest. Cient. Angola, Angola, Portuguese West Africa]

Croze, Harvey. THE SERONERA BULL PROBLEM. I. THE ELEPHANTS. *E. Afr. Wildl. J.* 12(1): 1-27, 13 figs. Mar. 1974. *WR 153: 35*
[Serengeti Res. Inst., Tanzania Natl. Parks, Tanzania] *"Loxodonta africana."*

Croze, Harvey. THE SERONERA BULL PROBLEM. II. THE TREES. *E. Afr. Wildl. J.* 12(1): 29-47, 5 figs. Mar. 1974. *WR 153: 35*
[Serengeti Res. Inst., Tanzania Natl. Parks, Tanzania] *"Loxodonta africana."*

Demars, C., and M. Goustard. STRUCTURE ET REGLES DE DEROULEMENT DES EMISSIONS SONORES DES HYLOBATES *(HYLOBATES CONCOLOR)*. [STRUCTURE AND DEVELOPMENTAL PATTERN OF SONORAL EMISSIONS OF HYLOBATES *(HYLOBATES CONCOLOR)*.] *Bull. Biol. Fr. Belg.* 106(3): 177-191, illus. 1972. [From Biol. Abstr. 57(12), 1974. In French with English summ.] *WR 153: 35*
[Lab. Ethol. Comp., La Petite Beauce, 91-St. Cheron, France]

Furuya, Yoshio. [ON *PAGUMA LARVATA* IN SHIZUOKA PREFECTURE: I. GEOGRAPHICAL DISTRIBUTION.] *J. Mammal. Soc. Jap.* 5(6): 199-205, illus. 1973. [From Biol. Abstr. 57(12), 1974. In Japanese with English summ.] *WR 153: 35*
[Kochi Women's Univ., Kochi, Japan]

Grote, John C., and Peter L. Dalby. AN EARLY LITTER FOR THE OPOSSUM *(DIDELPHIS MARSUPIALIS)* IN OHIO. *Ohio J. Sci.* 73(4): 240-241. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 35*
[Mich. State Univ., East Lansing 48823]

Groves, Colin P. NOTES ON THE ECOLOGY AND BEHAVIOUR OF THE ANGOLA COLOBUS *(COLOBUS ANGOLENSIS* P. L. SCLATER 1860*)* IN N.E. TANZANIA. *Folia Primatol.* 20 (1): 12-26. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 35*
[Univ. Cambridge, Cambridge, England]

Guiler, Eric R., and R. W. L. Heddle. BODY TEMPERATURES IN THE TASMANIAN DEVIL, *SARCOPHILUS HARRISII* (MARSUPIALIA: DASYURIDAE). *Comp. Biochem. Physiol. A Comp. Physiol.* 47(3): 981-989, 5 figs. Mar. 1974. *WR 153: 35*
[Univ. Tasmania, Hobart, Tasmania, Australia]

Kennedy, P. M., and G. E. Heinsohn. WATER METABOLISM OF TWO MARSUPIALS--THE BRUSH-TAILED POSSUM, *TRICHOSURUS VULPECULA* AND THE ROCK-WALLABY, *PETROGALE INORNATA* IN THE WILD. *Comp. Biochem. Physiol. A Comp. Physiol.* 47(3): 829-834. Mar. 1974. *WR 153: 35*
[CSIRO Pastoral Res. Lab., Townsville, Queensland 4810, Australia]

Kitchener, D. J. NOTES ON HOME RANGE AND MOVEMENT IN TWO SMALL MACROPODS, THE POTOROO *(POTOROUS APICALIS)* AND THE QUOKKA *(SETONIX BRACHYURUS)*. *Mammalia* 37(2): 231-240. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 36*
[Western Australia Mus., Perth, Western Australia 6000, Australia]

Langman, V. A. THE IMMOBILIZATION AND CAPTURE OF GIRAFFE. *S. Afr. J. Sci.* 69(7): 200-203, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 36*
[Univ. Pretoria, Pretoria, South Africa]

Marshall, L. G., and J. H. Hope. A REVALUATION OF *DASYURUS BOWLINGI* SPENCER AND KERSHAW 1910 (MARSUPIALIA, DASYURIDAE) FROM KING ISLAND, BASS STRAIT. *Roy. Soc. Victoria Proc.* 85(2): 225-236, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 36*
[Monash Univ., Clayton, Victoria, 3168, Australia] Taxonomy.

Maynes, G. M. REPRODUCTION IN THE PARMA WALLABY, *MACROPUS PARMA* WATERHOUSE. *Australian J. Zool.* 21(3): 331-351, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 36*
[Macquarie Univ., North Ryde, New South Wales, Australia]

Millar, R. P. AN UNUSUAL LIGHT-SHIELDING STRUCTURE IN THE EYE OF THE DASSIE, *PROCAVIA CAPENSIS* PALLAS (MAMMALIA: HYRACOIDEA). *Ann. Transvaal Mus.* 28(11): 203-205, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 36*
[Med. Sch., Cape Town, South Africa] The importance of this adaptation in allowing the dassie to stare directly into the sun is discussed in relation to thermoregulation in the animal and predation by birds of prey.

Mittermeier, Russell A. GROUP ACTIVITY AND POPULATION DYNAMICS OF THE HOWLER MONKEY ON BARRO COLORADO ISLAND. *Primates* 14(1): 1-19, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 36*
[Harvard Univ., Cambridge, Mass. 02138] *"Alouatta palliata."*

Nellis, David Wentworth. THE BIOLOGY OF THE MONGOOSE *(HERPESTES AUROPUNCTATUS)* ON ST. CROIX. *Ph.D. thesis, Univ. Ga.* 111 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 36*

Oppenheimer, J. R., and E. C. Oppenheimer. PRELIMINARY OBSERVATIONS OF *CEBUS NIGRIVITTATUS* (PRIMATES: CEBIDAE) ON THE VENEZUELAN LLANOS. *Folia Primatol.* 19 (6): 409-436, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 36*
[Johns Hopkins Univ., Baltimore, Md. 21205]

Papaioannou, John. OBSERVATIONS ON LOCOMOTOR AND GENERAL BEHAVIOUR OF THE SIAMANG. *Malay. Nat. J.* 26(1/2): 46-52, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 36*
[Dep. Anat., Downing St., Cambridge, England] *"Symphalangus syndactylus."*

Rasa, O. Anne E. PREY CAPTURE, FEEDING TECHNIQUES, AND THEIR ONTOGENY IN THE AFRICAN DWARF MONGOOSE, *HELOGALE UNDULATA RUFULA*. *Z. Tierpsychol.* 32(5): 449-488, illus. 1973. [From Biol. Abstr. 57(11), 1974. In English with German summ.] *WR 153: 36*
[Max-Planck-Inst. Verhaltensphysiol., D-8131 Seewiesen, West Germany]

Robinson, John A., and David Johnson. EVIDENCE FOR IMMUNE GLOMERULITIS COMPLEX IN THE NORTH AMERICAN OPOSSUM *(DIDELPHIS VIRGINIANA)*. *Am. J. Vet. Res.* 35(4): 543-546, 1 fig. Apr. 1974. *WR 153: 36*
[Edward Hines, Jr., Hospital, Veterans Administration, Hines, Ill. 60141]

Rothe, H. BEOBACHTUNGEN ZUR GEBURT BEIM WEISSBUESCHELAEFFCHEN *(CALLITHRIX JACCHUS* ERXLEBEN, 1777*)*. [OBSERVATIONS ON THE DELIVERY BEHAVIOR IN THE COMMON MARMOSET *(CALLITHRIX JACCHUS* ERXLEBEN, 1777*).]* *Folia Primatol.* 19(4): 257-285. 1973. [From Biol. Abstr. 57(7), 1974. In German with English summ.] *WR 153: 36*
[Univ. Goettingen, D-34 Goettingen, West Germany]

OTHER MAMMALS--Continued

Rowell, T. E. TOWARD A NATURAL HISTORY OF THE TALAPOIN MONKEY IN CAMEROON. *Ann. Fac. Sci. Cameroun* 10. p. 121-134, illus. 1972. [From Biol. Abstr. 57 (10), 1974. In English with French summ.] *WR 153: 37*
[Univ. Calif., Berkeley 94720]

Rumpler, Y., and R. Albignac. CYTOGENETIC STUDY OF THE ENDEMIC MALAGASY LEMUR: *HAPALEMUR*, I. GEOFFROY, 1851. *J. Hum. Evol.* 2(4): 267-270, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 37*
[Ec. Natl. Med., B. P. 375, Tananarive, Malagasy Republic]

Schlitter, D. A., J. Phillips, and G. E. Kemp. THE DISTRIBUTION OF THE WHITE-COLLARED MANGABEY, *CERCOCEBUS TORQUATUS*, IN NIGERIA. *Folia Primatol.* 19(5): 380-383, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 37*
[Carnegie Mus. Nat. Hist., Pittsburgh, Pa. 15213]

Schlitter, Duane A. NOTES ON THE LIBERIAN MONGOOSE, *LIBERIICTIS KUHNI* HAYMAN, 1958. *J. Mammal.* 55(2): 438-442, 1 fig. May 1974. *WR 153: 37*
[Carnegie Mus. Nat. Hist., Pittsburgh, Pa. 15213]

Setchell, P. J. THE DEVELOPMENT OF THERMOREGULATION AND THYROID FUNCTION IN THE MARSUPIAL *MACROPUS EUGENII* (DESMAREST). *Comp. Biochem. Physiol. A Comp. Physiol.* 47(3): 1115-1121, 4 figs. Mar. 1974. *WR 153: 37*
[Univ. Adelaide, Waite Agric. Res. Inst., South Australia 5064]

Smith, Meredith J., and R. A. How. REPRODUCTION IN THE MOUNTAIN POSSUM, *TRICHOSURUS CANINUS* (OGILBY), IN CAPTIVITY. *Australian J. Zool.* 21(3): 321-329, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 37*
[Univ. New England, Armidale, New South Wales 2351, Australia]

Stephenson, Gordon Ronald. TESTING FOR GROUP-SPECIFIC COMMUNICATION PATTERNS IN JAPANESE MACAQUES. *Ph.D. thesis, Univ. Wis.* 239 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 37*

Vincent, Francois. PROSIMIENS AFRICAINS: IV. ANATOMIE ET MORPHOLOGIE DES GENITALIA D'*EUOTICUS ELEGANTULUS* MALES DU CAMEROUN. [AFRICAN PROSIMIANS: IV. ANATOMY AND MORPHOLOGY OF THE GENITALS OF MALE SPECIMENS OF *EUOTICUS ELEGANTULUS* FROM CAMEROON. *Ann. Fac. Sci. Cameroun* 9. p. 155-167, illus. 1972. [From Biol. Abstr. 57(8), 1974. In French with English summ.] *WR 153: 37*
[Univ. Fed., Yaounde, Cameroon]

Walker, Jane B., and B. R. Laurence. *MARGAROPUS WILEYI* SP. NOV. (IXODOIDEA, IXODIDAE), A NEW SPECIES OF TICK FROM THE RETICULATED GIRAFFE. *Onderstepoort J. Vet. Res.* 40(1): 13-21, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 37*
[Vet. Res. Inst., Onderstepoort, South Africa]

BIRDS--GENERAL

Clancey, P. A. SUBSPECIATION STUDIES IN SOME RHODESIAN BIRDS. *Arnoldia* 6 (28): 1-43, illus. 22 Mar. 1974. *WR 153: 37*
[Durban Mus., Durban, South Africa]

Hamel, J. PIPITS, SKYLARKS AND RAINFALL. *Notornis* 19. p. 20-25. 1972. [From Auk 91(1), 1974.] *WR 153: 37*

Sturges, F. W., R. T. Holmes, and G. E. Likens. THE ROLE OF BIRDS IN NUTRIENT CYCLING IN A NORTHERN HARDWOODS ECOSYSTEM. *Ecology* 55(1): 149-155, 1 fig. Winter 1974. *WR 153: 37*
[Shepherd Coll., Shepherdtown, W. Va. 25443] Although birds contain only a small percentage of the standing crop of nutrients, they contribute to nutrient flux by removing small quantities of nutrients through losses during migration.--From abstr. Courtesy/ Paul A. Stewart.

Vorob'ev, K. A. [SOME ERRORS IN ORNITHOLOGICAL STUDIES.] *Zool. Zh.* 52(6): 955-957. 1973. [From Biol. Abstr. 57(11), 1974. In Russian with English summ.] *WR 153: 38*

"Lullula arborea pallida, Calandrella cinerea, Aquila clanga, A. rapax, Carpodacus roseus, Uragus sibiricus, Phylloscopus occipitalis, P. sibilatrix, P. neglectus and *P. collybita."*

BIRDS--TECHNIQUES

Adamyan, M. S., and A. A. Abramyan. [RESULTS OF ATTRACTING INSECTIVOROUS BIRDS IN THE DILIZHAN RESERVE.] *Biol. Zh. Arm.* 26(3): 45-54, illus. 1973. [From Biol. Abstr. 57(7), 1974. In Russian.] *WR 153: 38*

[Acad. Sci. Arm. SSR, Yerevan, USSR]

Brooks, William S. A TENTATIVE KEY FOR SEX DETERMINATION OF COMMON REDPOLLS *(ACANTHIS FLAMMEA FLAMMEA)* IN THE NORTHERN UNITED STATES DURING WINTER. *Bird-Banding* 44(1): 13-21. Winter 1973. *WR 153: 38*

[Ripon Coll., Ripon, Wis. 54971] Courtesy/ Paul A. Stewart.

Carney, W. Patrick. NOTES ON RAISING PASSERINE BIRDS IN THE LABORATORY. *Bird-Banding* 45(1): 29-32, 2 figs. Winter 1974. *WR 153: 38*

[Naval Med. Res. Unit no. 2, (NAMRU-2) Djakarta Detachment, APO San Francisco 96356] *"Turdus migratorius* and *Passer domesticus."*

Haarhaus, D. EINE METHODE ZUM REGISTRIEREN DER RUFAKTIVITÄT IN LABOR UND FREILAND. [A METHOD OF RECORDING BIRD VOCALIZATIONS IN LABORATORY AND FIELD.] *J. Ornithol.* 114. p. 57-70. 1973. [From Auk 91(1), 1974. In German with English summ.] *WR 153: 38*

Kalinoski, Ronald, and John P. Gluck. AN INEXPENSIVE, EFFICIENT CAGE FOR SMALL BIRDS. *Behav. Res. Methods Instrum.* 5(4): 353-354. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 38*

[Univ. N. Mex., Albuquerque 87104]

Klaas, Erwin E., Harry M. Ohlendorf, and Robert G. Heath. AVIAN EGGSHELL THICKNESS: VARIABILITY AND SAMPLING. *Wilson Bull.* 86(2): 156-164. June 1974. *WR 153: 38*

[Patuxent Wildl. Res. Center, Laurel, Md. 20811] Differences among eggs in the same clutch were nearly as great as in different clutches. With differences of 5%, 26 to 38 clutches are needed for an adequate sample.--Courtesy/ Paul A. Stewart.

Klomp, H. THE DETERMINATION OF CLUTCH-SIZE IN BIRDS: A REVIEW. *Ardea* 58. p. 1-124. 1970. [From Bird-Banding 43(4), 1972.] *WR 153: 38*

Lockyer, Norman F., Charles P. Stone, and Joseph L. Guarino. A DEVICE FOR REMOVING BIRDS FROM NEST BOXES. *Bird-Banding* 44(1): 56-57, 1 fig. Winter 1973. *WR 153: 38*

[Bureau Sport Fish. & Wildl., Bldg. 16, Denver Federal Center, Denver, Colo. 80225] Courtesy/ Paul A. Stewart.

Preston, F. W. THE VOLUME OF AN EGG. *Auk* 91(1): 132-138, 1 fig. Jan. 1974. *WR 153: 38*

[Box 49, Meridian Station, Butler, Pa. 16001] Several possible sources of error in calculations are discussed.--Courtesy/ Paul A. Stewart.

Ricklefs, Robert E. TATTOOING NESTLINGS FOR INDIVIDUAL RECOGNITION. *Bird-Banding* 44(1): 63. Winter 1973. *WR 153: 38*

[Univ. Pa., Philadelphia 19104] Courtesy/ Paul A. Stewart.

Riggins, John, and Heather Riggins. AGING SWAMP SPARROWS BY PLUMAGE. *Inland Bird Banding News* 46(1): 5-9. Jan.-Feb. 1974. *WR 153: 39*
[746 Harpeth Parkway W., Nashville, Tenn. 37205] Swamp sparrows *(Melospiza georgiana)* can be aged by the color of the superciliary line.--Courtesy/ Paul A. Stewart.

Simochko, M. D. [SOME CHARACTERISTICS OF ATTRACTING HOLLOW-NESTING BIRDS IN TRANSCARPATHIA.] *Vestn. Zool.* 7(1): 11-14. 1973. [From Biol. Abstr. 57(8), 1974. In Russian.] *WR 153: 39*
[Inst. Zool., Acad. Sci. Ukr. SSR, Kiev, USSR] *"Passer montanus* and *Sturnus vulgaris."*

Webster, D. M., and V. D. Hollard. A SAFE AND SIMPLE INJECTION ANESTHETIC FOR BIRDS. *Physiol. & Behav.* 10. p. 831. 1973. [From Auk 91(1), 1974.] *WR 153: 39*

Williams, Timothy C., and Harold Mix. AN INEXPENSIVE APPARATUS FOR RECORDING DATA FROM RADAR PLAN POSITION INDICATOR DISPLAYS. *Bird-Banding* 44(2): 124-125, 1 fig. Spring 1973. *WR 153: 39*
[State Univ. N.Y., Buffalo 14214] Courtesy/ Paul A. Stewart.

BIRDS--MORPHOLOGY & PHYSIOLOGY

Berthold, P., and H. Berthold. ÜBER JAHRESZEITLICHE ÄNDERUNGEN DER KLEIN-GEFIEDERQUANTITÄT IN BEZIEHUNG ZUM WINTERQUARTIER BEI *SYLVIA ATRICAPILLA* UND *S. BORIN*. [ON SEASONAL CHANGES IN BODY PLUMAGE QUANTITY IN RELATIONSHIP TO WINTERING GROUND IN *SYLVIA ATRICAPILLA* AND *S. BORIN*.] *Vogelwarte* 26. p. 160-164. 1971. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 39*

Casto, Stanley D. MOLT SCHEDULE OF HOUSE SPARROWS IN NORTHWESTERN TEXAS. *Wilson Bull.* 86(2): 176-177. June 1974. *WR 153: 39*
[Tex. Tech Univ., Lubbock] *"Passer domesticus."*--Courtesy/ Paul A. Stewart.

Clark, George A., Jr. FOOT-SCUTE DIFFERENCES AMONG CERTAIN NORTH AMERICAN OSCINES. *Wilson Bull.* 86(2): 104-109, 3 figs. June 1974. *WR 153: 39*
[Univ. Conn., Storrs] Differences were found even within species.--Courtesy/ Paul A. Stewart.

Da Rosa Pinto, A. A. THE EGGS OF THE WHITE-BELLIED BARBET *LYBIUS LEUCOGASTER* IN ANGOLA. *Ostrich* 44. p. 79. 1973. [From Auk 91(1), 1974.] *WR 153: 39*

Fanning, Marsha Evon. GASEOUS METABOLISM AND HEART RATE OF THE WHITE-THROATED SPARROW, *ZONOTRICHIA ALBICOLLIS*. *Ph.D. thesis, Univ. Ga.* 95 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 39*

Feduccia, Alan. MORPHOLOGY OF THE BONY STAPES IN NEW AND OLD WORLD SUBOSCINES: NEW EVIDENCE FOR COMMON ANCESTRY. *Auk* 91(2): 427-429, 2 figs. Apr. 1974. *WR 153: 39*
[Univ. N.C., Chapel Hill 27514] Courtesy/ Paul A. Stewart.

Fisk, Erma J. FURTHER NOTES ON THE COLOR OF MOCKINGBIRD EYES. *Bird-Banding* 44(2): 124. Spring 1973. *WR 153: 39*
[17101 SW 284 St., Homestead, Fla. 33030] Eye color cannot be used for aging mockingbirds *(Mimus polyglottos)*, except in the case of juveniles.--Courtesy/ Paul A. Stewart.

Gere, G. WATER ECONOMY OF THE ZEBRA FINCH *(TAENIOPYGIA GUTTATA* VIEILL.*)* UNDER CONDITIONS OF WATERING AND THIRST. *Acta Biol. Acad. Sci. Hung.* 23(2): 201-206. 1972. [From Biol. Abstr. 57(8), 1974.] *WR 153: 39*
[Puskin u. 3, Budapest VIII, Hungary]

Goldstein, Raymond B. RELATION OF METABOLISM TO AMBIENT TEMPERATURE IN THE VERDIN. *Condor* 76(1): 116-119, 1 fig. Spring 1974. *WR 153: 40*
[Univ. Nebr., Lincoln 68508] Metabolism and conductance and their ecological implications in the life of the verdin *(Auriparus flaviceps).*--Courtesy/ Paul A. Stewart.

Hanebrink, Earl L., Charles Gruver, and Richard Van Grouw. TAXONOMIC RELATIONSHIP OF HYBRID PEAFOWL-GUINEAFOWL: PRELIMINARY STUDY OF SERUM PROTEINS. *Proc. Ark. Acad. Sci.* 27. p. 33-34, 2 figs. 1973. *WR 153: 40*
[Ark. State Univ., State University] *"Pavocristatus* X *Numida meleagris."*

Hollander, Peter. ADAPTATIONS FOR ECHOLOCATION IN CAVE SWIFTLETS *(COLLOCALIA). Ph.D. thesis, Yale Univ.* 252 p. 1971. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 40*

Hughes, Maryanne Robinson. WATER CONTENT OF THE SALT GLANDS AND OTHER AVIAN TISSUES. *Comp. Biochem. Physiol. A Comp. Physiol.* 47(3): 1089-1093. Mar. 1974. *WR 153: 40*
[Univ. British Columbia, Vancouver, British Columbia, Canada] The same water content was noted in kidney, liver, ventricle, intestine and pectoral muscle in twelve bird species with salt glands and in sixteen bird species without salt glands.--From abstr.

Hummel, D. DIE LEISTUNGSERSPARNIS BEIM VERBANDSFLUG. [THE ENERGY CONSERVATION IN GROUP FLIGHT.] *J. Ornithol.* 114. p. 259-282. 1973. [From Auk 91 (2), 1974. In German with English summ.] *WR 153: 40*
A theoretical consideration of the aerodynamics of flying in group formation. Presents models and calculations that permit estimating the power saved by flying in formation.

Johnson, Ned K. MOLT AND AGE DETERMINATION IN WESTERN AND YELLOWISH FLYCATCHERS. *Auk* 91(1): 111-131, 6 figs. Jan. 1974. *WR 153: 40*
[Univ. Calif., Berkeley 94720] *"Empidonax difficilis* and *E. flavescens."*--Courtesy/ Paul A. Stewart.

Kendeigh, S. Charles, and Charles R. Blem. METABOLIC ADAPTATION TO LOCAL CLIMATE IN BIRDS. *Comp. Biochem. Physiol. A Comp. Physiol.* 48(1): 175-187, 3 figs. May 1974. *WR 153: 40*
[Univ. Ill., Champaign 61820]

MacMillen, Richard E. BIOENERGETICS OF HAWAIIAN HONEYCREEPERS: THE AMAKIHI *(LOXOPS VIRENS)* AND THE ANIANIAU *(L. PARVA). Condor* 76(1): 62-69, 4 figs. Spring 1974. *WR 153: 40*
[Univ. Calif., Irvine 92664] Body temperature, oxygen consumption, evaporative water loss, and tolerance to high ambient temperature of *Loxops virens* and *L. parva.*--Courtesy/ Paul A. Stewart.

Manuilova, N. A. [DIFFERENTIATION OF THE EYE RETINA IN *TURDUS MUSICUS* DURING DEVELOPMENT IN ALTERED LIGHT CONDITIONS.] *Vestn. Mosk. Univ. Ser. 6 Biol. Pochvoved.* 28(2): 92-94. 1973. [From Biol. Abstr. 57(9), 1974. In Russian with English summ.] *WR 153: 40*
[Moscow Univ., Moscow, USSR]

Marler, P., M. Konishi, R. Lutjen, and M. S. Waser. EFFECTS OF CONTINUOUS NOISE ON AVIAN HEARING AND VOCAL DEVELOPMENT. *Proc. Natl. Acad. Sci.* 70. p. 1393-1396. 1973. [From Auk 91(1), 1974.] *WR 153: 40*

McNab, B. K. BODY-WEIGHT, ENERGETICS AND THE DETERMINATION OF BODY TEMPERATURE. *J. Exp. Biol.* 58. p. 277-280. 1973. [From Auk 91(1), 1974.] *WR 153: 40*

Nachtigall, Werner. GESCHICHTE DER ERFORSCHUNG DES VOGELFLUGS VON DER RENAISSANCE BIS ZUR GEGENWART. [THE HISTORY OF THE RESEARCH ON BIRD FLIGHT FROM THE RENAISSANCE TO THE PRESENT.] *J. Ornithol.* 114(3): 283-304, illus. 1973. [From Biol. Abstr. 57(9), 1974. In German.] *WR 153: 41*
[Univ. Saarland, 66 Saarbruecken, West Germany] Research by Leonardo Da Vinci, J. A. Borelli, Sir George Caley, J. F. Prechtl, B. G. Lippert, Otto Lilienthal, and E. J. Marey on the physics of bird and bat flight is reviewed. Pheasants, ducks, partridges, peregrines, hobbies, pigeons, bats, storks, buzzards, canaries and seagulls were among the animals studied in terms of wing area, motion, weight and air friction.

Norris, Robert A. DATA ON NICTITATION RATES IN BIRDS. *Bird-Banding* 43(4): 289-290. Oct. 1972. *WR 153: 41*
[320 Eureka St., San Francisco, Calif. 94114] With information on 44 spp.--Courtesy/ Paul A. Stewart.

Pepper, S. R., and H. J. Kennedy. MOULT AND MEASUREMENTS OF REDPOLLS *CARDUELIS FLAMMEA* IN NORTH SWEDEN, 1968. *Ornis Fenn.* 47. p. 35-36. 1970. [From Auk 91(2), 1974.] *WR 153: 41*

Peterson, F. D. WEIGHT-CHANGES AT HESSELØ IN NIGHT MIGRATING PASSERINES DUE TO TIME OF DAY, SEASON, AND ENVIRONMENTAL FACTORS. *Dan. Ornithol. Foren. Tidsskr.* 66. p. 97-107. 1972. [From Auk 91(2), 1974.] *WR 153: 41*
Weight changes in *Erithacus rubecula, Phoenicurus phoenicurus, Acrocephalus scirpaceus,* and *Sylvia curruca.*

Rüppell, G. STRÖMUNGSTECHNISCH BEDEUTSAME STRUKTUREN AM BEWEGTEN KLEINVOGELFLÜGEL. [AERODYNAMICALLY SIGNIFICANT STRUCTURES ON THE MOVING WINGS OF SMALL BIRDS.] *J. Ornithol.* 114. p. 220-226. 1973. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 41*

Sanft, Kurt. GEWICHTE SUEDAMERIKANISCHER VOEGEL--PASSERES. [WEIGHTS OF SOUTH AMERICAN BIRDS--PASSERES.] *Beitr. Vogelkd.* 19(6): 406-423. 1973. [From Biol. Abstr. 58(1), 1974. In German.] *WR 153: 41*
[Reinickendorfer Str. 74, 1 Berlin 65, East Germany]

Stetson, Milton H., Robert A. Lewis, and Donald S. Farner. SOME EFFECTS OF EXOGENOUS GONADOTROPINS AND PROLACTIN ON PHOTOSTIMULATED AND PHOTOREFRACTORY WHITE-CROWNED SPARROWS. *Gen. Comp. Endocrinol.* 21(3): 424-430. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 41*
[Univ. Del., Newark 19711] *"Zonotrichia leucophrys gambelli."*

Stiles, F. G., and L. L. Wolf. A POSSIBLE CIRCANNUAL MOLT RHYTHM IN A TROPICAL HUMMINGBIRD. *Am. Nat.* 108(961): 341-354, 3 figs. May-June 1974. *WR 153: 41*
[Univ. Costa Rica, Costa Rica] *"Phaethornis superciliosus."*

Stresemann, E., and V. Stresemann. DIE POSTNUPTIALE UND DIE PRAENUPTIALE VOLLMAUSER VON *PERICROCOTUS DIVARICATUS* RAFFLES. [THE POSTNUPTIAL AND THE PRENUPTIAL COMPLETE MOLT OF *PERICROCOTUS DIVARICATUS* RAFFLES.] *J. Ornithol.* 113. p. 435-439. 1972. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 41*

Thompson, Charles F. POSTJUVENAL MOLT IN THE WHITE-EYED VIREO. *Bird-Banding* 44(1): 63-65. Winter 1973. *WR 153: 41*
[Univ. Ga., Athens 30601] *"Vireo griseus."*--Courtesy/ Paul A. Stewart.

Von Haartman, L. EINIGE BEMERKUNGEN ÜBER DIE FORM DES VOGEL-EIES. [SOME COMMENTS ON THE SHAPE OF BIRD EGGS.] *Vogelwarte* 26. p. 185-192. 1971. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 41*

BIRDS--MORPHOLOGY & PHYSIOLOGY--Continued

Voronov, N. [ADAPTIVE FEATURES OF DIGESTIVE SYSTEMS OF INSECTIVOROUS AND GRANIVOROUS BIRDS.] *Vestn. Zool.* 7(5): 11-17. 1973. [From Bird-Banding 45(2), 1974. In Russian with English summ.] *WR 153: 42*
"Including *Apus apus, Riparia riparia, Coccothraustes coccothraustes,* and *Carduelis flammea.*"

Wenzel, B., and M. Sieck. OLFACTORY PERCEPTION AND BULBAR ELECTRICAL ACTIVITY IN SEVERAL AVIAN SPECIES. *Physiol. & Behav.* 9(3): 287-293. 1972. [From Bird-Banding 45(1), 1974.] *WR 153: 42*
"Corvus spp., *Serinus canaria, Colinus virginianus, Anas platyrhynchos, Puffinus puffinus,* and *Cathartes aura."*

Wilson, Fred E., and Brian K. Follett. PLASMA AND PITUITARY LUTEINIZING HORMONE IN INTACT AND CASTRATED TREE SPARROWS *(SPIZELLA ARBOREA)* DURING A PHOTO-INDUCED GONADAL CYCLE. *Gen. Comp. Endocrinol.* 23(1): 82-93, 4 figs. May 1974. *WR 153: 42*
[Kans. State Univ., Manhattan 66506]

Wood, D. S., and D. L. Wood. QUANTITATIVE IRIS COLOR CHANGE WITH AGE IN DOWNY WOODPECKERS. *Bird-Banding* 44(2): 100-101, 1 fig. Spring 1973. *WR 153: 42*
[46 Fox Run, Murray Hill, N.J. 07974] *"Dendrocopos pubescens."*--Courtesy/ Paul A. Stewart.

BIRDS--BEHAVIOR

Akhmedov, K. R. [DATA ON THE REPRODUCTIVE BIOLOGY OF THE BLACKBIRD *TURDUS MERULA INTERMEDIA* RICHM. ON THE SOUTHERN SLOPE OF THE GISSAR RANGE (TADZHIK SSR).] *Izv. Akad. Nauk Tadzh. SSR Otd. Biol. Nauk* 2. p. 77-81, illus. 1973. [From Biol. Abstr. 57(11), 1974. In Russian with Tadzhik summ.] *WR 153: 42*
[State Pedagog. Inst., Dushanbe, USSR]

Austin, George T., and E. Linwood Smith. USE OF BURROWS BY BROWN TOWHEES AND BLACK-THROATED SPARROWS. *Auk* 91(1): 167. Jan. 1974. *WR 153: 42*
[Univ. Nev., Las Vegas 89109] *Pipilo fuscus* and *Amphispiza bilineata* entered and remained in ground burrows during high midday desert temperatures.--Courtesy/ Paul A. Stewart.

Balat, Frantisek. DIE ZWISCHENARTLICHEN BRUTBEZIEHUNGEN ZWISCHEN DEM HAUS-SPERLING, *PASSER DOMESTICUS* (L.) UND DER MEHLSCHWALBE, *DELICHON URBICA* (L.). [THE INTERSPECIES BROODING RELATIONSHIPS BETWEEN THE HOUSE SPARROW, *PASSER DOMESTICUS* (L.) AND THE HOUSE MARTIN, *DELICHON URBICA* (L.).] *Zool. Listy* 22(3): 213-222, illus. 1973. [From Biol. Abstr. 57(11), 1974. In German with English summ.] *WR 153: 42*
[Czechoslovak Acad. Sci., 603 65 Brno, Czechoslovakia]

Baldwin, M. NESTS OF THE RED WATTLE-BIRD. *Sunbird* 4. p. 10-12. 1973. [From Auk 91(2), 1974.] *WR 153: 42*
"Anthochaera carunculata."

Barbour, D. Y. GREATER HONEYGUIDE PARASITIZING SWALLOW-TAILED BEE-EATER. *Ostrich* 44. p. 79. 1973. [From Auk 91(1), 1974.] *WR 153: 42*
"Indicator indicator and *Merops (Dicrocercus) hirundineus."*

Beason, Robert C. AN INSTANCE OF INTERSPECIFIC AGGRESSION BY THE BARN SWALLOW. *Inland Bird Banding News* 46(2): 55-56. Mar.-Apr. 1974. *WR 153: 42*
[Clemson Univ., Clemson, S.C. 29631] *"Hirundo rustica."*--Courtesy/ Paul A. Stewart.

Beason, Robert C., and Edwin C. Franks. BREEDING BEHAVIOR OF THE HORNED LARK. *Auk* 91(1): 65-74, 2 figs. Jan. 1974. *WR 153: 42*
[Clemson Univ., Clemson, S.C. 29631] Vocalizations, territoriality, courtship, nesting, incubation, and nest success of *Eremophila alpestris praticola.*--Courtesy/ Paul A. Stewart.

Bergmann, H.-H. DIE IMITATIONSLEISTUNG EINER MISCHSÄNGER-DORNGRASMÜCKE *(SYLVIA COMMUNIS)*. EIN BEITRAG ZUM PROBLEM ANGEBORENER UND ERWORBENER GESANGSMERKMALE. [THE IMITATIVE ABILITY OF A WHITETHROAT. A CONTRIBUTION ON THE PROBLEM OF INHERITED AND ACQUIRED SONG CHARACTERISTICS.] *J. Ornithol.* 114. p. 317-338. 1973. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 43*

Beruldsen, G. R. A NEST OF THE JABIRU. *Sunbird* 3. p. 40-41. 1972. [From Auk 91(2), 1974.] *WR 153: 43*
"Xenorhynchus asiaticus."

Besson, J. RÉACTIONS DU GRAVELOT À COLLIER INTERROMPU ET DU GUÊPIER A L'ÉGARD DU FAUCON HOBEREAU. [REACTIONS OF THE SNOWY PLOVER AND THE EUROPEAN BEE-EATER TO THE NORTHERN HOBBY.] *Nos Oiseaux* 33. p. 264. 1970. [From Auk 91(1), 1974. In French.] *WR 153: 43*
"Charadrius alexandrinus, Merops apiaster, and *Falco subbuteo."*

Broekhuysen, G. J. BEHAVIOURAL RESPONSES OF DABCHICKS *PODICEPS RUFICOLLIS* TO DISTURBANCES WHILE INCUBATING. *Ostrich* 44(2): 111-117, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 43*
[Univ. Cape Town, Rondebosch, South Africa]

Caccamise, Donald F. COMPETITIVE RELATIONSHIPS OF THE COMMON AND LESSER NIGHTHAWKS. *Condor* 76(1): 1-20, 6 figs. Spring 1974. *WR 153: 43*
[Rutgers Univ., New Brunswick, N.J. 08903] *Chordeiles minor* is more aggressive than *C. acutipennis*, and it is suggested that this aggressiveness may result, through aggressive neglect, in placing *minor* at a competitive disadvantage with *acutipennis*.--Courtesy/ Paul A. Stewart.

Chernyshov, V. M. [DETECTION OF NESTS WITH MIXED EGGS IN THE NAURZUM RESERVATION.] *Vestn. Mosk. Univ. Ser. 6 Biol. Pochvoved.* 28(2): 91-92, illus. 1973. [From Biol. Abstr. 57(8), 1974. In Russian with English summ.] *WR 153: 43*
[Moscow Univ., Moscow, USSR] In 1971 in the Naurzum Reservation (in Northern Kazakhstan, USSR) a nest of *Larus argentatus* Pont. with 3 gull eggs and an egg of *Aythya ferina* L. and a nest of *Acrocephalus agricola* Jerd. where there were 2 of its eggs and 2 others of *Locustella luscinioides* Sovi were observed. Oviposition of *A. ferina* into the strange nest could be an accidental case of throwing off some spare eggs. In the case of *L. luscinioides* the reason of the oviposition by it the strange nest can be probably the result of destruction of its nest with unfinished laying by some terrestrial predator.

Clark, George A., Jr. UNIPEDAL POSTURES IN BIRDS. *Bird-Banding* 44(1): 22-26. Winter 1973. *WR 153: 43*
[Univ. Conn., Storrs 06268] Presents data on 56 spp., chiefly extracted from the literature.--Courtesy/ Paul A. Stewart.

Clark, George A., Jr. HOLDING FOOD WITH THE FEET IN PASSERINES. *Bird-Banding* 44(2): 91-99. Spring 1973. *WR 153: 43*
[Univ. Conn., Storrs 06268] Holding of food with the feet occurs in more than 20 families.--Courtesy/ Paul A. Stewart.

Conner, R. N. WOODPECKER UTILIZATION OF CUT AND UNCUT WOODLANDS. *M.S. thesis, Va. Polytech. Inst.* 82 p. 1973. *WR 153: 43*
Courtesy/ Burd S. McGinnes.

Conrads, K. ÜBER DIE RUFE DES ORTOLANS *(EMBERIZA HORTULANA* L.*)*. [ON THE CALLS OF THE ORTOLAN *(EMBERIZA HORTULANA* L.*)*.] *Vogelwarte* 26. p. 169-175. 1971. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 43*

Constantz, George D. ROBBING OF BREEDING LEWIS' WOODPECKER FOOD STORES. *Auk* 91(1): 171. Jan. 1974. *WR 153: 44*
[Ariz. State Univ., Tempe 85281] Stores of Lewis' woodpeckers *(Asyndesmus lewis)* were raided by crows *(Corvus brachyrhynchos)* and by other Lewis' woodpeckers.--Courtesy/ Paul A. Stewart.

Creighton, Phillip D., and David K. Porter. NEST PREDATION AND INTERFERENCE BY WESTERN MEADOWLARKS. *Auk* 91(1): 177-178. Jan. 1974. *WR 153: 44*
[Colo. State Univ., Fort Collins 80521] Western meadowlarks *(Sturnella neglecta)* ate or broke eggs or pecked young in nests of horned larks *(Eremophila alpestris)* and lark buntings *(Calamospiza melanocorys)*.--Courtesy/ Paul A. Stewart.

Cronert, H., and Å. Svensson. [OBSERVATIONS ON THE NESTING OF A PENDULINE TIT *REMIZ PENDULINUS* IN SWEDEN.] *Vår Fågelvärld* 32. p. 111-114. 1973. [From Auk 91(2), 1974. In Swedish with English summ.] *WR 153: 44*

Cruz, Alexander. FEEDING ASSEMBLAGES OF JAMAICAN BIRDS. *Condor* 76(1): 103-107. Spring 1974. *WR 153: 44*
[Univ. Colo., Boulder 80302] Frequency of visitation, feeding methods, aggressive behavior, social attractions, and birds as agents of plant dispersal are discussed.--Courtesy/ Paul A. Stewart.

Dobson, Charles W., and Lewis Petrinovich. SONG AS A REINFORCER IN THE WHITE-CROWNED SPARROW. *Behav. Biol.* 9(6): 719-729, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 44*
[Univ. Calif., Riverside 92502] *"Zonotrichia leucophrys nuttalli."*

Drost, R. ÜBER DAS VERHALTEN FREILEBENDER TEICHHÜHNER *(GALLINULA CHLOROPUS)* GEGENÜBER MENSCHEN. [ON THE BEHAVIOR OF FREE-LIVING MOORHENS *(GALLINULA CHLOROPUS)* TOWARD PEOPLE.] *Vogelwarte* 26. p. 175-182. 1971. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 44*

Dwernychuk, L. W., and D. A. Boag. DUCKS NESTING IN ASSOCIATION WITH GULLS--AN ECOLOGICAL TRAP? *Can. J. Zool.* 50. p. 559-563. 1972. [From Auk 91(1), 1974.] *WR 153: 44*

Farkas, Tibor. NOTES ON THE BIOLOGY AND ETHOLOGY OF HEUGLIN'S ROBIN *COSSYPHA HEUGLINI*. *Ostrich* 44(2): 95-105, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 44*
[Natl. Mus., Bloemfontein, South Africa]

Frederiksen, K. S., M. Jensen, E. H. Larsen, and V. H. Larsen. [SOME DATA ILLUSTRATING TIME OF BREEDING AND CLUTCH SIZE IN TITS (PARIDAE).] *Dan. Ornithol. Foren. Tidsskr.* 66. p. 73-85. 1972. [From Auk 91(2), 1974. In Danish with English summ.] *WR 153: 44*

Gargett, V., and D. G. Webb. A MARICO FLYCATCHER FEEDS A DIDRIC CUCKOO. *Ostrich* 44. p. 79. 1973. [From Auk 91(1), 1974.] *WR 153: 44*
"Chrysococcyx caprius."

Guettinger, Hans Rudolf. KOPIERVERMOEGEN VON RHYTHMUS UND STROPHENAUFBAU IN DER GESANGSENTWICKLUNG EINIGER *LONCHURA* ARTEN (ESTRILDIDAE). [COPYING OF RHYTHM AND PHRASE CONSTRUCTION DURING SONG DEVELOPMENT IN SEVERAL *LONCHURA* SPECIES (ESTRILDIDAE).] *Z. Tierpsychol.* 32(4): 374-385, illus. 1973. [From Biol. Abstr. 57(8), 1974. In German with English summ.] *WR 153: 44*
[Max-Planck-Inst. Verhaltensphysiol., D-8131 Seewiesen, West Germany]
"Including *Lonchura flaviprymna* and *L. punctulata.*"

Güttinger, H. R. ELEMENTWAHL UND STROPHENAUFBAU IN DER GESANGSENTWICKLUNG EINIGER PAPAGEIAMADINEN-ARTEN (GATTUNG: *ERYTHRURA*, FAMMILIE: ESTRILDIDAE). [COMPONENT CHOICE AND PHRASE CONSTRUCTION IN THE SONG DEVELOPMENT OF CERTAIN SPECIES OF PARROT FINCHES (GENUS *ERYTHRURA*, FAMILY ESTRILDIDAE).] *Z. Tierpsychol.* 31. p. 26-38. 1972. [From Auk 91(1), 1974. In German with English summ.] *WR 153: 45*
"Erythrura trichroa."

Harris, M. A., and R. E. Lemon. SONGS OF SONG SPARROWS *(MELOSPIZA MELODIA)*: INDIVIDUAL VARIATION AND DIALECTS. *Can. J. Zool.* 50. p. 301-309. 1972. [From Auk 91(1), 1974.] *WR 153: 45*

Harris, Margaret A., and Robert E. Lemon. SONGS OF SONG SPARROWS: REACTIONS OF MALES TO SONGS OF DIFFERENT LOCALITIES. *Condor* 76(1): 33-44, 5 figs. Spring 1974. *WR 153: 45*
[McGill Univ., Montreal, Quebec, Canada] The reactions of male song sparrows *(Melospiza melodia)* in three localities in southern Quebec are compared to playback of songs recorded from their own locality versus songs from a different locality.--Courtesy/ Paul A. Stewart.

Helb, H.-W. ANALYSE DER ARTISOLIERENDEN PARAMETER IM GESANG DES FITIS *(PHYLLOSCOPUS T. TROCHILUS)* MIT UNTERSUCHUNGEN ZUR OBJEKTIVIERUNG DER ANALYTISCHEN METHODE. [ANALYSIS OF THE SPECIES-ISOLATING PARAMETER IN THE SONG OF THE WILLOW WARBLER *(PHYLLOSCOPUS T. TROCHILUS)* WITH INVESTIGATIONS OF THE OBJECTIVIZATION OF ANALYTICAL METHODS.] *J. Ornithol.* 114. p. 145-206. 1973. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 45*

Heppner, Frank H. AVIAN FLIGHT FORMATIONS. *Bird-Banding* 45(2): 160-169, 5 figs. Spring 1974. *WR 153: 45*
[Univ. R.I., Kingston 02881] Suggests a classification of different types of flight formations and offers some suggestions on possible biological advantages of each type.--Courtesy/ Paul A. Stewart.

Hinsch, K. AKUSTISCHE GESANGSANALYSE BEIM FITIS *(PHYLLOSCOPUS TROCHILUS)* ZUR UNTERSUCHUNG DER ROLLE DER LUFTRÖHRE BEI DER STIMMERZEUGUNG DER SINGVÖGEL. [ACOUSTIC SONG ANALYSIS OF THE WILLOW WARBLER *(PHYLLOSCOPUS TROCHILUS)* IN AN INVESTIGATION OF THE ROLE OF THE TRACHEA IN VOICE DEVELOPMENT OF SONGBIRDS.] *J. Ornithol.* 113. p. 315-322. 1972. [From Auk 91(1), 1974. In German with English summ.] *WR 153: 45*

Howe, Henry F. AGE-SPECIFIC DIFFERENCES IN HABITAT SELECTION BY THE AMERICAN REDSTART. *Auk* 91(1): 161-162. Jan. 1974. *WR 153: 45*
[Univ. Mich., Ann Arbor 48104] *"Setophaga ruticilla."*--Courtesy/ Paul A. Stewart.

Ingram, G. NOTES ON THE FEEDING OF WHITE-BROWED WOOD-SWALLOWS *(ARTAMUS SUPERCILIOSUS)*. *Sunbird* 3. p. 64-65. 1972. [From Auk 91(2), 1974.] *WR 153: 45*

Ivanova, N. [ON THE BREEDING BIOLOGY OF THE RUFF.] *Vestn. Leningr. Univ.* 15. p. 26-29. 1973. [From Bird-Banding 45(2), 1974. In Russian with English summ.] *WR 153: 45*
"Philomachus pugnax."

Jones, Gwilym S. SELECTIVE ROOSTING OF *PTEROPUS ARQUATUS*. *Malay. Nat. J.* 26 (1/2): 55. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 45*
[Ind. State Univ., Terre Haute 47809]

Kemp, A. C., and G. L. Maclean. NESTING OF THE THREE-BANDED COURSER. *Ostrich* 44. p. 82-83. 1973. [From Bird-Banding 45(2), 1974.] *WR 153: 45*
"Rhinoptilus cinctus."

Kilham, Lawrence. COVERING OF STORES BY WHITE-BREASTED AND RED-BREASTED NUTHATCHES. *Condor* 76(1): 108-109. Spring 1974. *WR 153: 46*
[Dartmouth Med. School, Hanover, N.H. 03755] Stores of food were covered with bits of bark or lichens by *Sitta carolinensis* and *S. canadensis*.--Courtesy/ Paul A. Stewart.

King, J. R. THE ANNUAL CYCLE OF THE RUFOUS-COLLARED SPARROW *(ZONOTRICHIA CAPENSIS)* IN THREE BIOTOPES IN NORTH-WESTERN ARGENTINA. *J. Zool.* 170. p. 163-188. 1973. [From Auk 91(2), 1974.] *WR 153: 46*

Knopf, Sharon Gullickson. WOOD THRUSH NESTING BEHAVIOR. *S. Dak. Bird Notes* 26(1): 4-13, illus. Mar. 1974. *WR 153: 46*

Kroodsma, Roger L. SPECIES-RECOGNITION BEHAVIOR OF TERRITORIAL MALE ROSE-BREASTED AND BLACK-HEADED GROSBEAKS *(PHEUCTICUS)*. *Auk* 91(1): 54-64. Jan. 1974. *WR 153: 46*
[Union Univ., Jackson, Tenn. 38301] *"Pheucticus ludovicianus* and *P. melanocephalus."*--Courtesy/ Paul A. Stewart.

Kuenzel, Wayne J., and Carl W. Helms. AN ANNUAL CYCLE STUDY OF TAN-STRIPED AND WHITE-STRIPED WHITE-THROATED SPARROWS. *Auk* 91(1): 44-53, 2 figs. Jan. 1974. *WR 153: 46*
[Cornell Univ., Ithaca, N.Y. 14850] *"Zonotrichia albicollis."*--Courtesy/ Paul A. Stewart.

Leck, Charles. FURTHER OBSERVATIONS OF NECTAR FEEDING BY ORIOLES. *Auk* 91 (1): 162-163. Jan. 1974. *WR 153: 46*
[Rutgers Univ., New Brunswick, N.J. 08903] Suggests that nectar feeding is a well established habit among various species of orioles.--Courtesy/ Paul A. Stewart.

Lill, Alan. BEHAVIOR OF THE GRASSLAND SPARROW AND TWO SPECIES OF SEED-FINCHES. *Auk* 91(1): 35-43. Jan. 1974. *WR 153: 46*
[Monash Univ., Clayton, Victoria 3168, Australia] *"Myospiza humeralis, Orysoborus crassirostris,* and *O. angolensis."*--Courtesy/ Paul A. Stewart.

Löhrl, H. EINFLUSS DER BRUTERAUFLÄCHE DIE GELEGEGRÖSSE DER KOHLMEISE *(PARUS MAJOR)*. [EFFECT OF NEST HOLE AREA ON CLUTCH SIZE OF THE GREAT TIT *(PARUS MAJOR)*.] *J. Ornithol.* 114. p. 339-347. 1973. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 46*
[Am Schlossberg, D-7761 Möggingen, West Germany]

Löhrl, H., and G. Thielcke. ALARMLAUTE EUROPÄISCHER UND NORDAFRIKANISCHER TANNENMEISEN *(PARUS ATER ATER, P. A. ATLAS, P. A. LEDOUCI)* UND DER SCHWARZKOPF-MEISE *(P. MELANOLOPHUS)*. [ALARM CALLS OF EUROPEAN AND NORTH AFRICAN COAL TITS *(PARUS ATER ATER, P. A. ATLAS, P. A. LEDOUCI)* AND THE BLACK-CRESTED TIT *(PARUS MELANOLOPHUS)*.] *J. Ornithol.* 114. p. 250-252. 1973. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 46*

Lomholt, J. P. [OBSERVATIONS ON THE SINGING ACTIVITY OF THE YELLOWHAMMER *(EMBERIZA CITRINELLA)*.] *Dan. Ornithol. Foren. Tidsskr.* 65. p. 179-187. 1971. [From Auk 91(2), 1974. In Danish with English summ.] *WR 153: 46*

Lorber, P. MULTIPLE BROODING IN THE KURRICHANE THRUSH *TURDUS LIBONYANUS*. *Ostrich* 44. p. 84. 1973. [From Auk 91(2), 1974.] *WR 153: 46*

Mann, Clive F. SONGS OF TWO KENYA TURDIDS. *Auk* 91(1): 166-167. Jan. 1974. *WR 153: 46*
[P.O. Box 337, Kopsabet, Kenya] *"Alethe poliocephala* and *Sheppardia aequatorialis."*--Courtesy/ Paul A. Stewart.

Marshall, Judy, and Russell P. Balda. THE BREEDING ECOLOGY OF THE PAINTED REDSTART. *Condor* 76(1): 89-101, 7 figs. Spring 1974. *WR 153: 47*
[N. Ariz. Univ., Flagstaff 86001] For *Setophaga picta* the following are discussed: feeding behavior, vocalization, arrival in spring, establishment of territories, pair formation, courtship, nest site selection, nest construction, egg laying, incubation, care of nestlings, development of nestlings, departure from nest of nestlings, nesting success, polygynous behavior, double-brooded pairs, and tail fanning.--Courtesy/ Paul A. Stewart.

Moll, Don. NOTES ON COPULATION IN WHITE-BREASTED NUTHATCH. *Auk* 91(1): 171. Jan. 1974. *WR 153: 47*
[Western Ill. Univ., Macomb 61455] *"Sitta carolinensis."*--Courtesy/ Paul A. Stewart.

Morel, Marie-Yvonne. CYCLES ANNUELS DE QUELQUES OISEAUX GRANIVORES DES SAVANES AFRICAINES SEMI-ARIDES. [ANNUAL CYCLES OF SOME SEED-EATING BIRDS OF THE SEMI-ARID AFRICAN SAVANNAS.] *Bull. Inst. Fondam. Afr. Noire Ser. A Sci. Nat.* 35(1): 180-185. 1973. [From Biol. Abstr. 57(7), 1974. In French.] *WR 153: 47*
[Stn. Ornithol., ORSTOM, B.P. 20, Richard-Toll, Senegal]

Muckensturm, B. CONTRIBUTION A L'ETUDE DE L'UTILISATION DE CAVITES COMME "OUTILS" DE CONTENTION PAR LE PIC EPEICHE *(DENDROCOPOS MAJOR)*. 1. LA TECHNIQUE D'IMMOBILISATION DES OBJETS ALIMENTAIRES PAR LE PIC ADULTE. [ON THE USE OF CAVITIES AS HOLDING "TOOLS" BY THE GREAT SPOTTED WOODPECKER. 1. MODE OF INSERTION OF FOOD ITEMS BY ADULTS.] *Rev. Comport. Anim.* 5(4): 227-232, 235, 236. 1971. [From Bird-Banding 44(1), 1973. In French with German and English summ.] *WR 153: 47*

Nicolai, J. DAS LERNPROGRAMM IN DER GESANGSAUSBILDUNG DER STROHWITWE *TETRAENURA FISCHERI* REICHENOW. [THE LEARNING PROGRAM IN SONG DEVELOPMENT OF THE STRAW-TAILED WIDOW BIRD *TETRAENURA FISCHERI* REICHENOW.] *Z. Tierpsychol.* 32. p. 113-138. 1973. [From Auk 91(1), 1974. In German with English summ.] *WR 153: 47*

Nolan, Val, Jr. NOTES ON PARENTAL BEHAVIOR AND DEVELOPMENT OF THE YOUNG IN THE WOOD THRUSH. *Wilson Bull.* 86(2): 144-155. June 1974. *WR 153: 47*
[Ind. Univ., Bloomington 47401] *"Hylocichla mustelina."*--Courtesy/ Paul A. Stewart.

Olivier, R. C. D., and W. A. Laurie. BIRDS ASSOCIATING WITH HIPPOPOTAMUSES. *Auk* 91(1): 169-170. Jan. 1974. *WR 153: 47*
[Univ. Cambridge, Downing St., Cambridge CB2 3DX, England] Observations on 4 spp.--Courtesy/ Paul A. Stewart.

Pikula, Jiri. THE INFLUENCE OF ENVIRONMENTAL CONDITIONS ON THE BREEDING OF *TURDUS PHILOMELOS* IN CZECHOSLOVAKIA. *Zool. Listy* 22(3): 223-233, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 47*
[Czechoslovak Acad. Sci., 603 65 Brno, Czechoslovakia]

Pinkowski, Benedict C. PROLONGED INCUBATION RECORD FOR AN EASTERN BLUEBIRD. *Inland Bird Banding News* 46(1): 15-19. Jan.-Feb. 1974. *WR 153: 47*
[Wayne State Univ., Detroit, Mich.] Twenty days.--Courtesy/ Paul A. Stewart.

Platt, Joseph B., and Steve K. Sherrod. INTERACTIONS BETWEEN CORVIDS AND A GOLDEN EAGLE ON A PHEASANT KILL. *Auk* 91(1): 180-181. Jan. 1974. *WR 153: 47*
[Cornell Univ., Ithaca, N.Y. 14850] Courtesy/ Paul A. Stewart.

Post, William. SOME ENCOUNTERS BETWEEN BIRDS AND PELECYPODS. *Bird-Banding* 44(1): 65. Winter 1973. *WR 153: 47*
[N.C. Dept. Mental Health, Raleigh 27611] Courtesy/ Paul A. Stewart.

Pratt, E. SOME ANSWERS ABOUT COUCAL NESTING. *Sunbird* 3. p. 19-25. 1972. [From Auk 91(2), 1974.] *WR 153: 48*
"Centropus phasianus."

Rees, William Ernest. COMPARATIVE ECOLOGY OF THREE SYMPATRIC SPARROWS OF THE GENUS *ZONOTRICHIA*. *Ph.D. thesis, Univ. Toronto.* 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 48*

Rensch, Bernhard, and Gerti Duecker. DISCRIMINATION OF PATTERNS INDICATING FOUR AND FIVE DEGREES OF REWARD BY BIRDS. *Behav. Biol.* 9(3): 279-288, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 48*
[Univ. Münster, Münster, West Germany] *"Acridotheres tristis, Sturnus vulgaris, Sturnopastor contra,* and *Coloeus monedula."*

Simkin, G. [PRINCIPLES OF ACOUSTIC TRANSFORMATION IN CALLS AND SONGS OF BIRDS.] *Zool. Zh.* 52(8): 1261-1263. 1973. [From Bird-Banding 45(1), 1974. In Russian with English summ.] *WR 153: 48*

Skead, D. M. RED-BACKED SHRIKES RETURNING TO SAME WINTERING GROUNDS. *Ostrich* 44. p. 81. 1973. [From Auk 91(1), 1974.] *WR 153: 48*
"Lanius collurio."

Smith, James N. M. THE FOOD SEARCHING BEHAVIOUR OF TWO EUROPEAN THRUSHES. II: THE ADAPTIVENESS OF THE SEARCH PATTERNS. *Behaviour* 49(1-2): 1-61, 25 figs. 1974. In English with German summ. *WR 153: 48*
[Univ. British Columbia, Vancouver, British Columbia, V6T1W5, Canada]

Snapp, Barbara D. THE OCCURRENCE OF COLONIAL BREEDING IN THE BARN SWALLOW *(HIRUNDO RUSTICA)* AND ITS ADAPTIVE SIGNIFICANCE. *Ph.D. thesis, Cornell Univ.* 209 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 48*

Snow, Barbara K. VOCAL MIMICRY IN THE VIOLACEOUS EUPHONIA, *EUPHONIA VIOLACEA*. *Wilson Bull.* 86(2): 179-180. June 1974. *WR 153: 48*
[Old Forge, Wingrave, Aylesbury, Bucks, England] Courtesy/ Paul A. Stewart.

Tatschl, John Lorenz. NICHE EXPLOITATION AMONG THREE CLOSELY RELATED FLYCATCHERS IN KANSAS. *Ph.D. thesis, Kans. State Univ.* 60 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 48*
"Tyrannus verticalis, T. tyrannus, and *Muscivora forficata."*

Thomas, J. P. NOTES SUR LA REPRODUCTION DE LA MÉSANGE À LONGUE QUEUE EN FORÊT DE SÉNART. [NOTES ON THE REPRODUCTION OF THE LONG-TAILED TIT IN THE FOREST OF SENART.] *Passer* 7. p. 105-107. 1971. [From Auk 91(2), 1974. In French.] *WR 153: 48*

Thompson, W. L. SINGING BEHAVIOR OF THE INDIGO BUNTING, *PASSERINA CYANEA*. *Z. Tierpsychol.* 31. p. 39-59. 1972. [From Auk 91(2), 1974.] *WR 153: 48*

Vernon, C. J. POLYANDROUS *ACTOPHILORNIS AFRICANA*. *Ostrich* 44. p. 85. 1973. [From Auk 91(2), 1974.] *WR 153: 48*
"African jacanas."

White, Susan C., and Glen E. Woolfenden. BREEDING OF THE EASTERN BLUEBIRD IN CENTRAL FLORIDA. *Bird-Banding* 44(2): 110-123, 4 figs. Spring 1973. *WR 153: 48*
[Univ. Pa., Philadelphia 19104] In central Florida, eastern bluebirds *(Sialia sialis)* raise two broods during the period early March to mid-July. Nest success in boxes was from 55 to 69% during seven years; nest success in natural cavities was 42 and 48% in two years. Hatching failure was 12.3% during the spring breeding period and 28.4% during the summer.--From concl. Courtesy/ Paul A. Stewart.

Wible, Mary W. FLORIDA CARDINALS FEEDING ON NECTAR. *Auk* 91(2): 418-419. Apr. 1974. *WR 153: 49*
[517 Northeast 9th St., Ocala, Fla. 32670] Cardinals *(Cardinalis cardinalis floridanus)* ate nectar-filled capsules from the blossoms of shrimp plants *(Beloperone guttata)*.--Courtesy/ Paul A. Stewart.

Wolffgramm, Jochen. LAUTMUSTERSEQUENZEN UND PERIODISCHE BEZIEHUNGEN IM ROLLERKANARIGESAND *(SERINUS CANARIA* L.). [SEQUENCES OF VOCAL PATTERNS AND PERIODIC RELATIONSHIPS IN THE SONG OF THE ROLLER-CANARY *(SERINUS CANARIA* L.).] *J. Comp. Physiol.* 85(1): 65-68. 1973. [From Biol. Abstr. 57(7), 1974. In German with English summ.] *WR 153: 49*
[Albert Ludwigs Univ., D-7800 Freiburg/Breisgau, West Germany]

woods. TWO COWBIRD HOSTS NEW TO KANSAS. *Kans. Ornithol. Soc. Bull.* 23. p. 14-15. 1972. [From Auk 91(2), 1974.] *WR 153: 49*
[615 West 17th St., Topeka, Kans. 66612] Hosts for *Molothrus ater* were *Coccyzus americanus* in 1962 (first record west of the Mississippi River) and *Passer domesticus* in 1964. In the latter case *Sialia sialis* may have been the intended victim.

Wüstenberg, K. THE COLORFUL OCCUPANTS OF NESTHOLES. *Pac. Discovery* 26(5): 16-22. 1973. [From Auk 91(2), 1974.] *WR 153: 49*
Briefly describes nest building of European nuthatch *(Sitta europaea)*, great tit *(Parus major)*, pied flycatcher *(Ficedula hypoleuca)*, coal tit *(Parus ater)*, alpine tit *(Parus montanus)*, treecreeper *(Certhia familiaris)*, and short-toed treecreeper *(Certhia brachydactyla)*.

Yakobi, V. [BIRD BEHAVIOR AND TECHNOLOGY.] *Zh. Obshch. Biol.* 33(3): 261-273. 1972. [From Bird-Banding 43(4), 1972. In Russian with English summ.] *WR 153: 49*
Especially aircraft.

BIRDS--MIGRATION & BANDING REPORTS

Bailey, Edgar P. PASSERINE DIVERSITY, RELATIVE ABUNDANCE, AND MIGRATION AT COLD BAY, ALASKA. *Bird-Banding* 45(2): 145-151, 1 fig. Spring 1974. *WR 153: 49*
[U.S. Fish & Wildl. Serv., 813 D St., Anchorage, Alaska 99501] Mist nets were operated in riparian shrubs, capturing 1,613 birds of 21 spp. Savannah sparrows *(Passerculus sandwichensis)* represented 44% of the birds captured. The common redpoll *(Acanthis flammea)* was the only species present during the winter.--Courtesy/ Paul A. Stewart.

Cheylan, Gilles. LES DEPLACEMENTS DE LA NIVEROLLE *MONTIFRINGILLA NIVALIS* ET SON HIVERNAGE EN FRANCE MERIDIONALE. [SHIFTINGS OF THE SNOW-FINCH *MONTIFRINGILLA NIVALIS* AND ITS WINTERING IN SOUTHERN FRANCE.] *Alauda* 41(3): 213-226, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 49*
[6 Rue Littera, 13100 Aix-en-Provence, France]

Chipman, Irma. NOMADS OF THE NORTH. *Inland Bird Banding News* 46(2): 57-61, 2 figs. Mar.-Apr. 1974. *WR 153: 49*
[R.F.D. 2, Wautoma, Wis.] An east-west movement among evening grosbeaks *(Hesperiphona vespertina)* is indicated.--Courtesy/ Paul A. Stewart.

Collette, P. CONTRIBUTION A L'ETUDE DE LA MIGRATION PRENUPTIALE DU BRUANT DES ROSEAUX *(EMBERIZA SCHOENICLUS)*. [CONTRIBUTION TO THE STUDY OF THE PRENUPTIAL MIGRATION OF THE REED-BUNTING *(EMBERIZA SCHOENICLUS)*.] *Aves* 9(6): 226-240, illus. 1972. [From Biol. Abstr. 57(8), 1974. In French with English summ.] *WR 153: 49*
[Rue Jupille 257, 4620 Fleron, Belgium]

Collins, C. T. NOTES ON SURVIVAL AND BAND WEAR IN WHITE-THROATED SWIFTS. *Western Bird Bander* 48. p. 20-21. 1973. [From Auk 91(2), 1974.] *WR 153: 50*

DeSante, David Francis. AN ANALYSIS OF THE FALL OCCURRENCES AND NOCTURNAL ORIENTATIONS OF VAGRANT WOOD WARBLERS (PARULIDAE) IN CALIFORNIA. *Ph.D. thesis, Stanford Univ.* 362 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 50*

Elliott, C. C. H., and M. J. F. Jarvis. FOURTEENTH RINGING REPORT. *Ostrich* 41. p. 1-117. 1970. [From Bird-Banding 43(4), 1972.] *WR 153: 50*
"This report covers the period of July 1963 to June 1968 in South Africa and documents nearly 1800 recoveries."

Érard, C., and F. Larigauderie. OBSERVATIONS SUR LA MIGRATION PRÉNUPTIALE DANS L'OUEST DE LA LIBYE (TRIPOLITAINE ET PLUS PARTICULIÈREMENT FEZZAN). [OBSERVATIONS ON PRENUPTIAL MIGRATION IN WESTERN LIBYA (TRIPOLITANIA, ESPECIALLY FEZZAN).] *Oiseau* 42. p. 81-169 and 253-284. 1972. [From Auk 91(1), 1974. In French with English summ.] *WR 153: 50*

Fisk, Erma J. FALL MOVEMENT AND PROBABLE MIGRANT RETURNS OF MOCKINGBIRDS IN SOUTH FLORIDA. *Bird-Banding* 44(1): 62. Winter 1973. *WR 153: 50*
[17101 SW 284 St., Homestead, Fla. 33030] *"Mimus polyglottos."*--Courtesy/ Paul A. Stewart.

Kosswig, Leonore. ERGEBNISSE VON BERINGUNGEN IM VOGELPARADIES AM MANYASSEE (TUERKEI). [RESULTS OF BANDING IN THE BIRD SANCTUARY AT THE MANYAS SEA (TURKEY).] *Bonn. Zool. Beitr.* 24(3): 178-182, illus. 1973. [From Biol. Abstr. 57(9), 1974. In German with Turkish summ.] *WR 153: 50*
[Insirah S. 32, Istanbul-Bebek, Turkey]

Kroll, H. ZUR NAHRUNGSÖKOLOGIE DER GARTENGRASMÜCKE *(SYLVIA BORIN)* BEIM HERBSTZUG 1969 AUF HELGOLAND. [ON THE NUTRITIONAL ECOLOGY OF THE GARDEN WARBLER *(SYLVIA BORIN)* DURING FALL MIGRATION 1969 IN HELGOLAND.] *Vogelwarte* 26. p. 280-285. 1972. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 50*

Laskey, Amelia R. ONE-DAY OR ONE-NIGHT MILEAGE OF MIGRANT BIRDS. *Bird-Banding* 43(4): 287. Oct. 1972. *WR 153: 50*
[1521 Graybar Lane, Nashville, Tenn. 37215] A purple finch *(Carpodacus purpureus)* was recaptured ten miles east from the banding site the next day after banding, and a chimney swift *(Chaetura pelagica)* was recaptured about 85 miles south from its banding site in the evening following the morning of its banding. --Courtesy/ Paul A. Stewart.

Leberman, R. C., and M. H. Clench. BIRD-BANDING AT POWDERMILL, 1972. *Powdermill Nat. Reserve Rep.* no. 31. 46 p. 1972. [From Bird-Banding 45(1), 1974.] *WR 153: 50*

Olioso, Georges. L'HIVERNAGE DU BRUANT DES NIEGES *PLECTROPHENAX NIVALIS* DANS LE MIDI MEDITERRANEEN FRANCAIS. [WINTERING OF THE SNOW BUNTING *PLECTROPHENAX NIVALIS* IN SOUTHERN MEDITERRANEAN FRANCE.] *Alauda* 41(3): 227-232, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 50*
[Ecole Gargas-le-Chene, 84400 Apt, France]

Stewart, Robert M., L. Richard Mewaldt, and Susan Kaiser. AGE RATIOS OF COASTAL AND INLAND FALL MIGRANT PASSERINES IN CENTRAL CALIFORNIA. *Bird-Banding* 45(1): 46-57, 4 figs. Winter 1974. *WR 153: 50*
[Point Reyes Bird Observatory, P.O. Box 321, Bolinas, Calif. 94924] The percentages of immature as compared with adult parulids of 5 spp. were highest at the insular and coastal stations and lowest at the inland station. Among western flycatchers *(Empidonax difficilis)*, warbling vireos *(Vireo gilvus)*, and black-headed grosbeaks *(Pheucticus melanocephalus)*, adults migrated before the postnuptial molt and before peak migrations of immatures.--Courtesy/ Paul A. Stewart.

Thurber, Walter A., and Amanda Villeda C. SOME BANDING RETURNS IN EL SALVADOR. *Bird-Banding* 43(4): 285. Oct. 1972. *WR 153: 51*
[Cornell Univ., Ithaca, N.Y. 14850] Courtesy/ Paul A. Stewart.

Thurber, Walter A., and Amanda Villeda C. BANDED RETURNS IN EL SALVADOR, 1972-73 SEASON. *Bird-Banding* 45(1): 58-59. Winter 1974. *WR 153: 51*
[Cornell Univ., Ithaca, N.Y. 14850] Courtesy/ Paul A. Stewart.

Vauk, G., and E. Wittig. NAHRUNGSÖKOLOGISCHE UNTERSUCHUNGEN AN FRÜHJAHRS-DURCHZÜGLERN DER AMSEL *(TURDUS MERULA)* AUF DER INSEL HELGOLAND. [NUTRITIONAL ECOLOGY INVESTIGATIONS OF SPRING MIGRANTS OF THE BLACKBIRD *(TURDUS MERULA)* ON THE ISLAND OF HELGOLAND.] *Vogelwarte* 26. p. 238-245. 1971. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 51*

West, George C., and Leonard J. Peyton. THE SPRING MIGRATION OF THE TREE SPARROW THROUGH SOUTHERN YUKON TERRITORY. *Bird-Banding* 43(4): 241-256, 2 figs. Oct. 1972. *WR 153: 51*
[Univ. Alaska, Fairbanks 99701] *"Spizella arborea."*--Courtesy/ Paul A. Stewart.

Williams, Timothy C., and John M. Teal. THE FLIGHT OF BLINDFOLDED BIRDS. *Bird-Banding* 44(2): 102-109, 2 figs. Spring 1973. *WR 153: 51*
[State Univ. N.Y., Buffalo 14214] Thirty-four birds of six species were able to fly when wearing opaque blindfolds. Some of these birds briefly flew upside down.--Courtesy/ Paul A. Stewart.

BIRDS--MANUALS, FAUNAS, COMMUNITIES

Alexander, William C. ABUNDANCE AND HABITAT PREFERENCES OF BIRDS ON THE SLOPES OF GRANDFATHER MOUNTAIN, NORTH CAROLINA, APRIL-NOVEMBER. *J. Elisha Mitchell Sci. Soc.* 89(1/2): 92-100. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 51*
[4637 Kings Dr., Wilmington, N.C. 28401]

Andersson, Malte. BIRDS OF NUVAGAPAK POINT, NORTHEASTERN ALASKA. *Arctic* 26 (3): 186-197, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 51*
[Univ. Gothenburg, Gothenburg, Sweden] Fifty-two spp.

Bataille, J., C. Bourguignon, H. Pagézy, and J. Trotignon. DÉNOMBREMENT DE SAUVAGINE ET D'AIGLES PÊCHEURS *(CUNCUMA VOCIFER)* SUR LE LAC ÉDOUARD (R. D. DU CONGO). [CENSUS OF WATERFOWL AND OSPREYS ON LAKE EDWARD (REPUBLIC OF THE CONGO).] *Oiseau* 42. p. 183-192. 1972. [From Auk 91(1), 1974. In French.] *WR 153: 51*

Belton, William. MORE NEW BIRDS FOR RIO GRANDE DO SUL, BRAZIL. *Auk* 91(2): 429-432. Apr. 1974. *WR 153: 51*
[Caixa Postal 119, Gramado, Rio Grande do Sul, 95670, Brazil] Observations on 24 spp.--Courtesy/ Paul A. Stewart.

Buckley, P. A. RECENT SPECIMENS OF WESTERN VAGRANTS AT FIRE ISLAND NATIONAL SEASHORE, LONG ISLAND, NEW YORK. *Auk* 91(1): 181-185. Jan. 1974. *WR 153: 51*
[74 Clarke Dr., East Northport, Long Island, N.Y. 11731] Observations on 5 spp.--Courtesy/ Paul A. Stewart.

Church, Victor. BIRD SPECIES DIVERSITY IN PATAGONIA: A CRITIQUE. *Am. Nat.* 108(960): 235-236. Mar.-Apr. 1974. *WR 153: 51*
[5518 Vesley Court, Rockville, Md. 20851] Based on Vuilleumier [*WR 151: 53*].

Cruz, A. BIRDS OF THE LLUIDAS VALE (WORTHY PARK) REGION, JAMAICA. *Quart. J. Fla. Acad. Sci.* 35. p. 72-80. 1972. [From Auk 91(2), 1974.] *WR 153: 51*
Annotated list of 87 spp.

Dinsmore, J. J. AVIFAUNA OF LITTLE TOBAGO ISLAND. *Quart. J. Fla. Acad. Sci.* 35. p. 55-71. 1972. [From Auk 91(2), 1974.] *WR 153: 52*
Annotated list of 59 spp.

Dontschev, Stefan. ZUR AVIFAUNA BULGARIENS. [ON THE AVIFAUNA OF BULGARIA.] *Bonn. Zool. Beitr.* 24(3): 323-324. 1973. [From Biol. Abstr. 57(9), 1974. In German.] *WR 153: 52*
[Zool. Inst., Mus., Ornithol. Zent., Sofia, Bulgaria]

Dorst, J., and F. Roux. ESQUISSE ÉCOLOGIQUE SUR L'AVIFAUNE DES MONTS DU BALE, ÉTHIOPIE. [ECOLOGICAL OUTLINE OF THE AVIFAUNA OF THE BALE MOUNTAINS, ETHIOPIA.] *Oiseau* 42. p. 203-240. 1972. [From Auk 91(1), 1974. In French.] *WR 153: 52*

Filewood, L. W. NEW AVIFAUNAL SIGHT-RECORDINGS FOR BOUGAINVILLE. *Proc. Papua & New Guinea Sci. Soc.* 21. p. 20-22. 1969. [From Bird-Banding 43(4), 1972.] *WR 153: 52*

Gauntlett, F. M. NOTES ON SOME KASHMIR BIRDS. *J. Bombay Nat. Hist. Soc.* 69 (3): 591-615. 1972. [From Biol. Abstr. 57(11), 1974.] *WR 153: 52*

Hubbard, J. P. GEOGRAPHIC VARIATION IN THE SAVANNAH SPARROWS OF THE INLAND SOUTHWEST, MEXICO, AND GUATEMALA. *Nemouria* no. 12. 1974. [From Bird-Banding 45(2), 1974.] *WR 153: 52*
"Ammodramus sandwichensis."

Johnson, Stephen R. FIRST SPECIMEN OF A ROBIN *(TURDUS MIGRATORIUS)* AND THREE IMPORTANT SIGHT RECORDS FROM ST. LAWRENCE ISLAND, BERING SEA, ALASKA. *Condor* 76 (1): 108. Spring 1974. *WR 153: 52*
[Univ. Auckland, Auckland, New Zealand] Includes sight records for whiskered auklet *(Aethia pygmaea)*, lesser yellowlegs *(Tringa flavipes)*, and upland plover *(Bartramia longicauda)*.--Courtesy/ Paul A. Stewart.

Khanmamedov, A. I., D. G. Tuaev, V. I. Vasil'ev, and S. M. Alieva. [DATA ON THE AVIFAUNA OF KOBYSTAN.] *Izv. Akad. Nauk Az. SSR Ser. Biol. Nauk* 3. p. 83-90, illus. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with Azerbaidjani summ.] *WR 153: 52*

Lemaire, Francoise. NOTES SUR QUELQUES ESPECES DE L'AVIFAUNE CORSE. [NOTES ON SEVERAL SPECIES OF THE CORSICAN AVIFAUNA.] *Alauda* 41(3): 267-272. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 52*
[194 Rue Bois-de-Breux, 4500 Jupille-sur-Meus, Belgium]

Martin, Stephen G., Paul H. Baldwin, and Edward B. Reed. RECENT RECORDS OF BIRDS FROM THE YAMPA VALLEY, NORTHWESTERN COLORADO. *Condor* 76(1): 113-116. Spring 1974. *WR 153: 52*
[P.O. Box 1057, Fort Collins, Colo. 80521] Observation on more than 20 spp.--Courtesy/ Paul A. Stewart.

Moltoni, Edgardo. GLI UCCELLI FINO AD OGGI RINVENUTI O NOTATI ALL'ISOLA DI PANTELLERIA (PROVINCIA DI TRAPANI, SICILIA). [THE BIRDS SO FAR OBSERVED OR NOTED ON THE ISLAND OF PANTELLERIA (PROVINCE OF TRAPANI, SICILY).] *Riv. Ital. Ornitol.* 43(2): 173-437, illus. 1973. [From Biol. Abstr. 57(7), 1974. In Italian.] *WR 153: 52*
[Mus. Civ. Stor. Nat., Corso Venezia, 55-Milano, Italy]

Nechaev, V. A. [*PASSER RUTILANS* ON SAKHALIN ISLAND.] *Zool. Zh.* 52(7): 1033-1038. 1973. [From Biol. Abstr. 57(12), 1974. In Russian with English summ.] *WR 153: 52*
[Acad. Sci. USSR, Vladivostok, USSR]

Nicolai, J. ZWEI NEUE *HYPOCHERA*-ARTEN AUS WEST AFRIKA (PLOCEIDAE, VIDUINAE). [TWO NEW *HYPOCHERA* SPECIES FROM WEST AFRICA (PLOCEIDAE, VIDUINAE).] *J. Ornithol.* 113. p. 229-240. 1972. [From Auk 91(1), 1974. In German with English summ.] *WR 153: 53*

Niethammer, G. ZUR VOGELWELT DES AFGHANISCHEN PAMIR UND DES DARWAZ. [ON THE BIRDS OF THE AFGHAN PAMIR AND THE DARWAZ.] *Bonn. Zool. Beitr.* 24(3): 270-284, illus. 1973. [From Biol. Abstr. 57(9), 1974. In German.] *WR 153: 53*
[Bonn, West Germany]

Nogge, Gunther. ORNITHOLOGISCHE BEOBACHTUNGEN IM AFGHANISCHEN PAMIR. [ORNITHOLOGICAL OBSERVATIONS IN THE AFGHAN PAMIR.] *Bonn. Zool. Beitr.* 24(3): 254-269. 1973. [From Biol. Abstr. 57(9), 1974. In German.] *WR 153: 53*
[Inst. Angew. Zool., 53 Bonn 1, West Germany]

Petrovic, Clive A., and James King, Jr. BIRD RECORDS FROM THE DRY TORTUGAS. *Fla. Field Nat.* 1(1): 5-8. Spring 1973. *WR 153: 53*
[724 Camilo Ave., Coral Gables, Fla. 33134]

Purroy, F. J. EL VENCEJO REAL, *APUS MELBA*, EN LOS PIRINEOS. [THE ALPINE SWIFT *(APUS MELBA)* IN THE PYRENEES.] *Ardeola* 19. p. 89-95. 1973. [From Auk 91 (2), 1974. In Spanish with English summ.] *WR 153: 53*

Rochlitzer, Reinhard. ZUM GEGENWAERTIGEN AUFTRETEN DER ENTENVOEGEL UND DER GREIFVOEGEL IM NATURSCHUTZGEBIET STECKBY-LOEDDERITZER FORST, TEILGEBIET LOEDDERITZER FORST. [ON THE OCCURRENCE OF ANSERIFORMES AND FALCONIFORMES IN THE LODDERITZ FOREST, PART OF THE STECKBY-LODDERITZ FOREST RESERVATION AREA.] *Hercynia Fachgeb. Bot.-Geogr.-Geol.-Palaeontol.-Zool.* 9(3): 279-301, illus. 1972. [From Biol. Abstr. 57(8), 1974. In German.] *WR 153: 53*
[Mendelssohnstr. 39, DDR-437 Koethen, East Germany]

Salomonsen, F. ZOOGEOGRAPHIC AND ECOLOGICAL PROBLEMS IN ARCTIC BIRDS. *Proc. 15th Int. Ornithol. Congr.* p. 25-77. 1972. [From Auk 91(2), 1974.] *WR 153: 53*

Salvan, J. NOTES ORNITHOLOGIQUES DU CONGO-BRAZZAVILLE. [ORNITHOLOGICAL NOTES ON CONGO-BRAZZAVILLE.] *Oiseau* 42. p. 241-252. 1972. [From Auk 91(2), 1974. In French.] *WR 153: 53*
Annotated list of species.

Short, Lester L. NESTING OF SOUTHERN SONORAN BIRDS DURING THE SUMMER RAINY SEASON. *Condor* 76(1): 21-32. Spring 1974. *WR 153: 53*
[City Univ. New York, New York, N.Y. 10024] Observations on nearly 90 spp.--Courtesy/ Paul A. Stewart.

Simpson, K. N. G. BIRDS OF THE MURRAY RIVER REGION BETWEEN MILDURA AND RENMARK, AUSTRALIA: BREEDING, BEHAVIOURAL AND FEEDING RECORDS. *Mem. Natl. Mus. Victoria* 34. p. 253-273, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 53*
[Monash Univ., Clayton, Victoria, Australia]

Thibault, Jean-Claude. NOTES ORNITHOLOGIQUES POLYNESIENNES: II. LES ILES MARQUISES. [POLYNESIAN ORNITHOLOGICAL NOTES: THE MARQUESAS ISLANDS.] *Alauda* 41 (3): 301-316, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French.] *WR 153: 53*
[17 Rue Tournon, 75006 Paris, France]

Thiollay, J.-M. PLACE DES OISEAUX DANS LES CHAINES TROPHIQUES D'UNE ZONE PREFORESTIERE EN COTE-D'IVOIRE. [THE PLACE OF BIRDS IN THE TROPHIC CHAINS OF A SAVANNA IN THE IVORY-COAST.] *Alauda* 41(3): 273-300. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 53*
[Ec. Norm. Super., 46 Rue Ulm, 75230 Paris Cedex, France]

BIRDS--MANUALS, FAUNAS, COMMUNITIES--Continued

Tomoff, Carl S. AVIAN SPECIES DIVERSITY IN DESERT SCRUB. *Ecology* 55(2): 396-403, 6 figs. Early Spring 1974. *WR 153: 54*

[Univ. Wash., Seattle 98195] In desert habitat, densities of most birds are strongly related to densities of plants suitable for use in nesting. A model that combines aspects of foliage-height diversity and physiognomic coverage diversity may provide greater accuracy and wider applicability for predicting breeding bird species diversity than a model using only foliage-height diversity. --Courtesy/ Paul A. Stewart.

Vilmos, Szekessy. MAGYARORSZAG ALLATVILAGA. FAUNA HUNGARIAE, XXI, KOTET. AVES. MADARAK. [HUNGARIAN FAUNA, VOL. XXI. AVES. BIRDS.] *Akad. Kiado* (Budapest, Hungary). Paged variously, illus. 1973. [From Biol. Abstr. 57(8), 1974. In Hungarian.] *WR 153: 54*

Volchanetskii, I. B. [DATA ON A STUDY OF THE ZOOGEOGRAPHY OF DAGESTAN.] *Biol. Nauk.* 16(7): 30-36. 1973. [From Biol. Abstr. 57(8), 1974. In Russian.] *WR 153: 54*

[Kharkov State Univ., Kharkov, USSR] The geographic distribution of birds of Dagestan ASSR (USSR) was investigated relative to the zoogeographic zonation of the Caucasus.

Webster, M. A. THE HONG KONG BIRD REPORT 1970-71. *Hong Kong Bird Watching Soc. Publ.* 82 p. 1972. [From Auk 91(2), 1974.] *WR 153: 54*

Consists of brief summaries of the status of 266 spp. recorded in 1970 and of 247 in 1971. Also includes longer write-ups on other subjects by various authors, including a survey of an egretry and occurrences of kites *(Milvus migrans)* by D. J. Bovey.

Winternitz, Barbara Lindeman. ECOLOGICAL PATTERNS IN A MONTANE BREEDING BIRD COMMUNITY. *Ph.D. thesis, Univ. Colo.* 135 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 54*

woods. A NOTE ON THE EARLY HISTORY OF THE HOUSE SPARROW IN KANSAS. *Kans. Ornithol. Soc. Bull.* 23. p. 11. 1972. [From Auk 91(2), 1974.] *WR 153: 54*

[615 West 17th St., Topeka, Kans. 66612]

Zobbe, B. [PRELIMINARY REPORT ON THE BIRDS OF SPRING AT SKAGEN.] *Dan. Ornithol. Foren. Tidsskr.* 65. p. 141-147. 1971. [From Auk 91(2), 1974. In Danish with English summ.] *WR 153: 54*

BIRDS--POPULATIONS & FLUCTUATIONS

Berthold, Peter. UEBER STARKEN RUECKGANG DER DORNGRASMUECKE *SYLVIA COMMUNIS* UND ANDERER SINGVOGELARTEN IM WESTLICHEN EUROPA. [ON THE SEVERE DECLINE OF POPULATIONS OF THE WHITETHROAT AND OTHER SONG BIRDS IN WESTERN EUROPE.] *J. Ornithol.* 114(3): 348-360, illus. 1973. [From Biol. Abstr. 57(9), 1974. In German with English summ.] *WR 153: 54*

[Vogelwarte Radolfzell, Schloss, D-7761 Möggingen, West Germany]

Bezzel, E. ZUR JAHRESPERIODIK UND BESTANDSFLUKTUATION ALPINER FICHTENKREUZSCHNÄBEL *(LOXIA CURVIROSTRA).* [SEASONAL CYCLE AND POPULATION FLUCTUATION OF THE RED CROSSBILL *(LOXIA CURVIROSTRA).*] *Vogelwarte* 26. p. 346-352. 1972. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 54*

Bradley, R. A. A POPULATION CENSUS OF THE BELDING'S SAVANNAH SPARROW, *PASSERCULUS SANDWICHENSIS BELDINGI. Western Bird Bander* 48. p. 40-43. 1973. [From Auk 91(2), 1974.] *WR 153: 54*

Burtt, Harold E., and Maurice L. Giltz. INFLUX OF ROBINS IN 1973. *Inland Bird Banding News* 46(2): 53-54. Mar.-Apr. 1974. *WR 153: 55*

[Ohio State Univ., Columbus 43210] In a ten-year summary of decoy trapping--there was a comparatively high annual population of robins in 1973 while that of blackbirds and starlings remained relatively constant.--Courtesy/ Paul A. Stewart.

Davis, T. H. THE INCREASE OF THE TUFTED TITMOUSE, MOCKINGBIRD, AND CARDINAL IN THE NEW YORK CITY-LONG ISLAND AREA OVER THE PAST 22 YEARS. *Linnaean News-Letter* 25(8): 1-4. 1972. [From Auk 91(2), 1974.] *WR 153: 55*

Diamond, Jared M. COLONIZATION OF EXPLODED VOLCANIC ISLANDS BY BIRDS: THE SUPERTRAMP STRATEGY. *Science* 184(4138): 803-806, 2 figs. 17 May 1974. *WR 153: 55*

[Univ. Calif., Los Angeles 90024] Abstract: After volcanic explosions or tidal waves had defaunated several islands near New Guinea, bird species number rapidly returned to equilibrium on coral islets and rapidly returned to quasi-steady-state values limited by regrowth of vegetation in lowland forest of larger islands. However, reequilibration in montane forest has been limited by slow dispersal of the birds. Colonists have been drawn disproportionately from r-selected "supertramp" species, which maintain much higher population densities than do K-selected faunas, perhaps due to selection for resource overexploitation by the latter.

Dimovski, A. IXMENI VO SOSTAVOT NA ORNITOFAUNATA NA SKOPSKATA KOTLINA. [CHANGES IN THE COMPOSITION OF THE BIRD FAUNA OF THE SKOPJE PLAIN.] *Acta Mus. Macedonici Sci. Nat.* 13(3): 41-64. 1972. [From Biol. Abstr. 57(8), 1974. In Serbo-Croatian with French summ.] *WR 153: 55*

[Mus. Macedonici Sci. Nat., Skopje, Yugoslavia]

Eriksson, K. IRRUPTION AND WINTERING ECOLOGY OF THE GREAT SPOTTED WOODPECKER *DENDROCOPOS MAJOR*. *Ornis Fenn.* 48. p. 69-76. 1971. [From Auk 91(2), 1974.] *WR 153: 55*

Eriksson, M., and J. A. Hansson. [THE NUTCRACKER INCURSION 1968.] *Vår Fågelvärld* 32. p. 11-22. 1973. [From Auk 91(1), 1974. In Swedish with English summ.] *WR 153: 55*

"Nucifraga caryocatactes."

Fretwell, S. THE REGULATION OF BIRD POPULATIONS ON KONZA PRAIRIE. THE EFFECT OF EVENTS OFF THE PRAIRIE. *Proc. Third Midwest Prairie Conf. 22-25 Sept. 1972. Publ. Div. Biol. Kans. State Univ.* 3. p. 71-76. 1973. [From Auk 91(2), 1974.] *WR 153: 55*

Dickcissel populations on a Kansas prairie may be determined largely by events in the northern South American llanos during the winter and the Texas prairie in spring.

Göransson, G., and J. Karlsson. [THE RANGE EXPANSION IN EUROPE AND THE OCCURRENCE IN SWEDEN OF THE PENDULINE TIT *REMIZ PENDULINUS*.] *Vår Fågelvärld* 32. p. 107-110. 1973. [From Auk 91(2), 1974. In Swedish with English summ.] *WR 153: 55*

Holmbring, J. A. [THE GREAT REED WARBLER *ACROCEPHALUS ARUNDINACEUS* IN SWEDEN 1971 AND A REVIEW OF ITS EARLIER STATUS.] *Vår Fågelvärld* 32. p. 23-31. 1973. [From Auk 91(1), 1974. In Swedish with English summ.] *WR 153: 55*

Jørgensen, O. H. [THE DISTRIBUTION OF THE GREY WAGTAIL *(MOTACILLA CINEREA)* AS A BREEDING BIRD IN DENMARK.] *Dan. Ornithol. Foren. Tidsskr.* 64. p. 70-77. 1970. [From Auk 91(2), 1974. In Danish with English summ.] *WR 153: 55*

Jørgensen, O. H. [RESULTS OF BREEDING BIRD CENSUSES IN DANISH FARMLAND IN 1969 AND 1970.] *Dan. Ornithol. Foren. Tidsskr.* 65. p. 98-108. 1971. [From Auk 91(2), 1974. In Danish with English summ.] *WR 153: 55*

Leisler, B. DIE JAHRESVERBREITUNG DES MARISKENSÄNGERS *(ACROCEPHALUS MELANOPOGON)* NACH BEOBACHTUNGEN UND RINGFUNDEN. [THE YEARLY DISTRIBUTION OF THE MOUSTACHED WARBLER FROM OBSERVATIONS AND BAND RECOVERIES.] *Vogelwarte* 27. p. 24-39. 1972. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 56*

Mocci Demartis, A. CENSIMENTO INVERNALE DEGLI UCCELLI NEGLI "STAGNI" E NEI LAGHI DELLA SARDEGNA (INVERNO 1971-72). [WINTER CENSUS OF BIRDS OF MARSHES AND LAKES OF SARDINIA (WINTER 1971-72).] *Ric. Biol. Selvaginna* 57. p. 1-50, 10 figs. Dec. 1973. In Italian with French, German and English summ. *WR 153: 56*
[Via De Castro, 37-(09025) Oristano (Cagliari), Italy]

Pikula, Jiri. ALTERSSTRUKTUR UND MIGRATION DER TESCHECHOSLOWAKISCHEN POPULATION *TURDUS PHILOMELOS*, BREHM 1831. [AGE STRUCTURE AND MIGRATION OF THE CZECHOSLOVAKIAN POPULATION OF *TURDUS PHILOMELOS* BREHM 1831.] *Zool. Listy* 21(4): 359-381, illus. 1972. [From Biol. Abstr. 57(9), 1974. In German with English summ.] *WR 153: 56*
[Czech. Acad. Sci., Brno, Czechoslovakia]

Shields, William M., and Thomas C. Grubb, Jr. WINTER BIRD DENSITIES ON NORTH AND SOUTH SLOPES. *Wilson Bull.* 86(2): 125-130, 1 fig. June 1974. *WR 153: 56*
[Rutgers Univ., New Brunswick, N.J. 08903] Birds of 6 spp. were most abundant on the less mesic south-facing slopes.--Courtesy/ Paul A. Stewart.

Spitzer, Gerhard. ZUR VERBREITUNG DER FORMEN VON *PANURUS BIARMICUS* IN DER WESTPALAEARKTIS. [ON THE DISTRIBUTION OF *PANURUS BIARMICUS* IN THE WESTERN PALEARCTIC REGION.] *Bonn. Zool. Beitr.* 24(3): 291-301, illus. 1973. [From Biol. Abstr. 57(9), 1974. In German with English summ.] *WR 153: 56*
[Univ. Vienna, A-1010 Vienna I, Austria]

Valet, G. L'EXPANSION DE LA GRIVE LITORNE *TURDUS PILARIS* DANS L'ARRONDISSEMENT DE LURE (HAUTE-SAONE). [EXPANSION OF THE FIELD FARE *TURDUS PILARIS* IN THE LURE DISTRICT (HAUTE-SAONE).] *Alauda* 41(3): 253-266, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 56*
[1 Pl. Buffon, 21500 Montbard, France]

Walcott, Charles F. CHANGES IN BIRD LIFE IN CAMBRIDGE, MASSACHUSETTS FROM 1860 TO 1964. *Auk* 91(1): 151-160. Jan. 1974. *WR 153: 56*
[R.F.D. 1, Petersborough, N.H. 03458] The nesting population changed from 26 species during 1860-73 to 9 species in 1960-64.--Courtesy/ Paul A. Stewart.

Winterbottom, J. M. CHANGES OF STATUS OF BIRDS IN HUMANSDORP DISTRICT. *Ostrich* 43. p. 234. 1972. [From Auk 91(2), 1974.] *WR 153: 56*
Compares a recent, unpublished list by J. Blignaut with one published 55 years earlier. Some birds have disappeared.

BIRDS--ECONOMICS, CONTROL, MORTALITY

Best, Louis B. BLUE RACERS PREY ON FIELD SPARROW NESTS. *Auk* 91(1): 168-169. Jan. 1974. *WR 153: 56*
[Univ. Ill., Urbana 61801] The snakes returned to the nests even after they had been driven away or the eggs and young eaten.--Courtesy/ Paul A. Stewart.

Botkin, Daniel B., and Richard S. Miller. MORTALITY RATES AND SURVIVAL OF BIRDS. *Am. Nat.* 108(960): 181-192, 1 fig. Mar.-Apr. 1974. *WR 153: 56*
[Yale Univ., New Haven, Conn. 06511] Summary: Birds have been assumed to have a constant adult mortality rate in which a constant fraction of a cohort dies in each age interval. Average annual mortality rates reported for many species would result in exceedingly long potential life spans, and it seems more reasonable to assume that avian mortality is age dependent. Data on the mortality and survivorship of several species of birds are analyzed and alternative models of age-dependent mortality are discussed.

Downer, Audrey C. LONGEVITY RECORDS OF INDIGO BUNTINGS WINTERING IN JAMAICA. *Bird-Banding* 43(4): 287. Oct. 1972. *WR 153: 57*
[1 Oakridge, Kingston, Jamaica] *"Passerina cyanea."*--Courtesy/ Paul A. Stewart.

Jackson, Jerome A. GRAY RAT SNAKES VERSUS RED-COCKADED WOODPECKERS: PREDATOR-PREY ADAPTATIONS. *Auk* 91(2): 342-347. Apr. 1974. *WR 153: 57*
[Miss. State Univ., Mississippi State 39762] Red-cockaded woodpeckers *(Dendrocopos borealis)* are vulnerable to predation by rat snakes because of their nesting in living pine trees. A barrier of fresh pine gum resulting from the woodpeckers circling their nest and roost trees with small holes repels the snakes, the gum being repellent to the snakes because of stickiness and the presence of pinosylvin, probably toxic to snakes.--Courtesy/ Paul A. Stewart.

Leuthold, W., and B. Leuthold. BLUTSCHNABELWEBER *(QUELEA QUELEA)* ALS BEUTE VON GREIF- UND STELZVÖGELN. [QUELEA *(QUELEA QUELEA)* AS PREY OF RAPTORS AND SHOREBIRDS.] *Vogelwarte* 26. p. 352-354. 1972. [From Auk 91(2), 1974. In German.] *WR 153: 57*
Observations of predation by various hawks, eagles, and storks on swarms of the quelea at waterholes in Africa.

Levine, E. CROW PREDATION ON THE UPLAND PLOVER. *Linnaean News-Letter* 25(4): 1-2. 1971. [From Auk 91(2), 1974.] *WR 153: 57*

Liversidge, R. YELLOW-EYED CANARY: LONGEVITY IN CAPTIVITY. *Ostrich* 42. p. 143. 1971. [From Bird-Banding 43(4), 1972.] *WR 153: 57*
"Serinus mozambicus."

Lowry, E. B. THE NILO LETHALITY MODEL. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 63. p. 117-145, 13 figs. 1973. *WR 153: 57*
[Winchester-Western Div., Olin, East Alton, Ill. 62024] Ballistics of the results of the Kosicky and Madson paper [*WR 153:*].

Marion, Wayne R., and Raymond J. Fleetwood. LONGEVITY OF CHACHALACAS. *Bird-Banding* 45(2): 178. Spring 1974. *WR 153: 57*
[Texas A&M Univ., College Station 77843] A banded chachalaca *(Ortalis vetula)* was at least eight years old when recaptured.--Courtesy/ Paul A. Stewart.

Marion, Wayne R., and Raymond J. Fleetwood. LONGEVITY OF GREEN JAYS. *Bird-Banding* 45(2): 178. Spring 1974. *WR 153: 57*
[Texas A&M Univ., College Station 77843] A banded green jay *(Cyanocorax yncas)* was at least nine years old when retrapped.--Courtesy/ Paul A. Stewart.

Martin, Stephen G. LONGEVITY SURPRISE: THE BOBOLINK. *Bird-Banding* 44(1): 57-58. Winter 1973. *WR 153: 57*
[Colo. State Univ., Fort Collins 80521] Courtesy/ Paul A. Stewart.

Mazzotti, Luis. DOS ESPECIES DE AVES DE LA AMERICA TROPICAL (TUCANES). [ENEMIES OF SCORPIONS: TWO AVIAN SPECIES OF TROPICAL AMERICA (TUCANS).] *Ann. Parasitol. Hum. Comp.* 48(2): 351-353. 1973. [From Biol. Abstr. 57(11), 1974. In Spanish.] *WR 153: 57*
[Enferm. Trop., Mexico City, Mexico] *"Pteroglossus torquatus* and *Ramphastos sulfuratus."*

Mott, D. F., and C. P. Stone. BIRD DAMAGE TO BLUEBERRIES IN THE UNITED STATES. *U.S. Fish Wildl. Serv. Spec. Sci. Rep. Wildl.* no. 172. ii + 15 p. 1973. For sale at 55¢ by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 57*
[Denver Wildl. Res. Cent., Denver, Colo.] Starlings *(Sturnus vulgaris)*, robins *(Turdus migratorius)*, and common grackles *(Quiscalus quiscula)* were considered the most damaging species.--From abstr.

Savidge, Irvin R., and David E. Davis. SURVIVAL OF SOME COMMON PASSERINES IN A PENNSYLVANIA WOODLOT. *Bird-Banding* 45(2): 152-155. Spring 1974. *WR 153: 58*
[N.C. State Univ., Raleigh 27607] Courtesy/ Paul A. Stewart.

Schifter, H. LONGEVITY IN THE LONGTAILED WIDOWBIRD IN CAPTIVITY. *Ostrich* 41. p. 255. 1970. [From Bird-Banding 43(4), 1972.] *WR 153: 58*
"Euplectes progne and *E. capensis."*

Schmidt, Egon. OEKOLOGISCHE AUSWIRKUNGEN VON ELEKTRISCHEN LEITUNGEN UND MASTEN SOWIE DEREN ACCESSORIEN AUF DIE VOEGEL. [THE ECOLOGICAL EFFECTS OF ELECTRICAL LINES AND THEIR POLES AND ACCESSORIES ON BIRDS.] *Beitr. Vogelkd.* 19 (5): 342-362. 1973. [From Biol. Abstr. 57(11), 1974. In German.] *WR 153: 58*
[Madastani Intezet, Budapest XII, Hungary]

Sloan, Norman F. WHITE-BREASTED NUTHATCH LONGEVITY RECORDS. *Inland Bird Banding News* 46(1): 34. Jan.-Feb. 1974. *WR 153: 58*
[Mich. Technol. Univ., Houghton 49931] Reports two *Sitta carolinensis* approaching seven years of age.--Courtesy/ Paul A. Stewart.

Sloan, Norman F., and Andrew C. DePuydt. AN UNUSUAL CHIPPING SPARROW RECOVERY RECORD. *Inland Bird Banding News* 46(1): 35. Jan.-Feb. 1974. *WR 153: 58*
[Mich. Technol. Univ., Houghton 49931] Reports a chipping sparrow *(Spizella passerina)* at least eight years old.--Courtesy/ Paul A. Stewart.

Stone, C. P., and D. F. Mott. BIRD DAMAGE TO SPROUTING CORN IN THE UNITED STATES. *U.S. Fish Wildl. Serv. Spec. Sci. Rep. Wildl.* no. 173. iv + 28 p., 4 figs. 1973. For sale at 65¢ by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 58*
[Denver Wildl. Res. Cent., Denver, Colo.] *"Quiscalus quiscula."*

BIRDS--PARASITES & DISEASES

Bennett, G. F., and A. G. Campbell. AVIAN HAEMOPROTEIDAE. 1. DESCRIPTION OF *HAEMOPROTEUS FALLISI* N. SP. AND A REVIEW OF THE HAEMOPROTEIDS OF THE FAMILY TURDIDAE. *Can. J. Zool.* 50. p. 1269-1275. 1972. [From Auk 91(1), 1974.] *WR 153: 58*

Carothers, Steven W., N. Joseph Sharber, and Gene F. Foster. SCALY-LEG (KNEMIDOKOPTIASIS) IN A POPULATION OF EVENING GROSBEAKS. *Wilson Bull.* 86(2): 121-124, 2 figs. June 1974. *WR 153: 58*
[Harold S. Colton Res. Cent., Flagstaff, Ariz. 86021] Reports an incidence of 25% in a local population of 60 *Hesperiphona vespertina.*--Courtesy/ Paul A. Stewart.

Lord, Rexford D., Charles H. Calisher, W. Adrian Chappell, W. R. Metzger, and G. W. Fischer. URBAN ST. LOUIS ENCEPHALITIS SURVEILLANCE THROUGH WILD BIRDS. *Am. J. Epidemiol.* 99(5): 360-363. May 1974. *WR 153: 58*
[Centro Panamericano Zoonosis, Casilla 23, Romos Mejia, Buenos Aires, Argentina]

Lord, Rexford D., Charles H. Calisher, and Walter P. Doughty. ASSESSMENT OF BIRD INVOLVEMENT IN THREE URBAN ST. LOUIS ENCEPHALITIS EPIDEMICS. *Am. J. Epidemiol.* 99(5): 364-367. May 1974. *WR 153: 58*
[Centro Panamericano Zoonosis, Casilla 23, Romos Mejia, Buenos Aires, Argentina]

McGroarty, D. L., and R. C. Dobson. ECTOPARASITE POPULATIONS ON HOUSE SPARROWS IN NORTHWESTERN INDIANA. *Am. Midl. Nat.* 91(2): 479-486, 2 figs. Apr. 1974. *WR 153: 58*
[Mich. State Univ., East Lansing 48823] *"Passer domesticus."*

Stabler, Robert M., Nancy J. Kitzmiller, and Clait E. Braun. HEMATOZOA FROM COLORADO BIRDS. IV. GALLIFORMES. *J. Parasitol.* 60(3): 536-537. June 1974. *WR 153: 59*
[Colo. Coll., Colorado Springs 80903]

Yaroshenko, N., and V. Kharchenko. [BEETLE MITES (ACARIFORMES, ORIBATEI) OF BIRDS' NESTS IN THE DONETS REGION.] *Vestn. Zool.* 6(3): 20-23. 1972. [From Bird-Banding 44(1), 1973. In Russian with English summ.] *WR 153: 59*

QUAIL

Berkhoff, German A., S. Gordon Campbell, and H. Brooks Naylor. ETIOLOGY AND PATHOGENESIS OF ULCERATIVE ENTERITIS ("QUAIL DISEASE"). ISOLATION OF THE CAUSATIVE ANAEROBE. *Avian Dis.* 18(2): 186-194, 1 fig. Apr.-June 1974. *WR 153: 59*
[Purdue Univ., Lafayette, Ind. 47907] *"Phasianus colchicus* and *Colinus virginianus."*

Berkhoff, German A., S. Gordon Campbell, H. Brooks Naylor, and Louis DS. Smith. ETIOLOGY AND PATHOGENESIS OF ULCERATIVE ENTERITIS ("QUAIL DISEASE"). CHARACTERIZATION OF THE CAUSATIVE ANAEROBE. *Avian Dis.* 18(2): 195-204, 3 figs. Apr.-June 1974. *WR 153: 59*
[Purdue Univ., Lafayette, Ind. 47907]

Berkhoff, German A., and S. Gordon Campbell. ETIOLOGY AND PATHOGENESIS OF ULCERATIVE ENTERITIS ("QUAIL DISEASE"). THE EXPERIMENTAL DISEASE. *Avian Dis.* 18 (2): 205-212, 1 fig. Apr.-June 1974. *WR 153: 59*
[Purdue Univ., Lafayette, Ind. 47907]

Chahil, Parshotam Singh. GENETICS OF GROWTH AND THE EFFECT OF HIGH AMBIENT TEMPERATURE ON PERFORMANCE IN *COTURNIX COTURNIX JAPONICA*. *Ph.D. thesis, La. State Univ.* 86 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 59*

Jackson, James A., and Moore J. Burns. EFFECTS OF CYSTINE, NIACIN AND TAURINE ON CHOLESTEROL CONCENTRATION IN THE JAPANESE QUAIL WITH COMMENTS ON BILE ACID METABOLISM. *Comp. Biochem. Physiol. A Comp. Physiol.* 48(1): 61-68, 2 figs. May 1974. *WR 153: 59*
[Univ. Ky., Lexington 40506]

James, Douglas. FAILURE TO ESTABLISH FERAL *COTURNIX* QUAIL POPULATIONS IN ARKANSAS IN THE LATE 1950'S. *Proc. Ark. Acad. Sci.* 26. p. 27-29. 1972. *WR 153: 59*
[Univ. Ark., Fayetteville 72701] Abstract: Although *Coturnix* introductions failed in the late 1950's, it was learned in Arkansas that birds survived longest after autumn releases especially where fallow fields were numerous, that *Coturnix* favored grasslands whereas the bobwhite preferred shrublands, and that *Coturnix* occurred singly, pairing only in the breeding season.

Leporati, L., M. Spagnesi, and A. Franchini. RICERCHE PRELIMINARI SU ALCUNI ASPETTI DELLA DEPOSIZIONE DEL COLINO DELLA VIRGINIA *(COLINUS V. VIRGINIANUS* L.). [PRELIMINARY INVESTIGATIONS ON SOME ASPECTS OF EGG-LAYING IN EASTERN BOBWHITES *(COLINUS V. VIRGINIANUS).*] *Ric. Biol. Selvaggina* 58. 17 p., 5 figs. Mar. 1974. In Italian with French, German and English summ. *WR 153: 59*

Merkel, F. W., and K. Fischer-Klein. WINKELKOMPENSATION BEIN ZWERGWACHTELN *(EXCALFACTORIA CHINENSIS).* [ANGLE COMPENSATION IN A PAINTED QUAIL *(EXCALFACTORIA CHINENSIS).*] *Vogelwarte* 27. p. 39-50. 1972. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 59*

PHEASANTS

Anderson, William L., and Ronald F. Labisky. SELECTED PHYSIOLOGICAL RESPONSES OF PHEASANTS TO MINERALS IN CORN. *Condor* 76(1): 109-112. Spring 1974. *WR 153: 60*
[Ill. Nat. Hist. Surv., Urbana 61801] There is reason to doubt whether mineral levels in the livers of ring-necked pheasants *(Phasianus colchicus)* indicated whether the birds are on low intakes of Ca, Na, and P. However, weights of the parathyroid glands and femurs might be useful indicators of low intake of Ca.--Courtesy/ Paul A. Stewart.

Labisky, Ronald F., and William L. Anderson. NUTRITIONAL RESPONSES OF PHEASANTS TO CORN, WITH SPECIAL REFERENCE TO HIGH-LYSINE CORN. *Ill. Nat. Hist. Surv. Bull.* 31(3): 87-112, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 60*
[Nat. Hist. Surv. Div., Urbana, Ill.]

Maestrini, N., M. Spagnesi, and A. Franchini. SU DI UN EPISODIO DI ENTERITE TRASMISSIBILE NEL FAGIANO *(PHASIANUS COLCHICUS* L.). [ON AN INCIDENCE OF INFECTIOUS ENTERITIS IN THE PHEASANT *(PHASIANUS COLCHICUS* L.).] *Ric. Biol. Selvaggina* 56. p. 1-18, 8 figs. Nov. 1973. In Italian with French, German and English summ. *WR 153: 60*

Spittler, H. UNTERSUCHUNGEN ZUR BEFRUCHTUNGSRATE VON FASANENEIERN BEI HALTUNG DER LEGESTAEMME IN UNTERSCHIEDLICHEM GESCHLECHTERVERHAELTNIS. [STUDIES OF THE FERTILIZATION RATE OF PHEASANT EGGS IN BREEDING STOCKS OF DIFFERENT SEX RATIOS.] *Z. Jagdwiss.* 19(2): 81-90, illus. 1973. [From Biol. Abstr. 57(7), 1974. In German with French and English summ.] *WR 153: 60*
[Forschungsstelle Jagdkd. Wildschadenverhuetung, Bonn, West Germany]

TURKEY

Beasom, Samuel LaMonte. ECOLOGICAL FACTORS AFFECTING WILD TURKEY REPRODUCTIVE SUCCESS IN SOUTH TEXAS. *Ph.D. thesis, Tex. A&M Univ.* 233 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 60*
"Meleagris gallopavo intermedia."

Bittner, Stephen R. WILD TURKEY FOOD-HABIT, MOVEMENTS, AND POPULATIONS ON WINTER QUARTERS HUNTING CLUB, TENSAS PARISH, LOUISIANA. *M.S. thesis, La. State Univ.* 77 p. 1973. *WR 153: 60*
"Meleagris gallopavo silvestris."--Courtesy/ Ann J. Owens.

DeGraff, Lee W. RETURN OF THE WILD TURKEY. *Conservationist* 28(2): 24-27, 47, illus. Oct.-Nov. 1973. *WR 153: 60*
[N.Y. Dep. Environ. Conserv., Albany] "Gobblers now inhabit all of southern New York from Chautauqua County to the Catskills and estimates of potential range are annually expanded."

Doster, Gary L. SECOND REPORT OF *DREPANIDOTAENIA WATSONI* IN WILD TURKEYS. *J. Parasitol.* 60(2): 309. Apr. 1974. *WR 153: 60*
[Univ. Ga., Athens 30602]

Renhowe, Bruce. THE WILD TURKEY IN NORTH DAKOTA. *N. Dak. Outdoors* 36(12): 14-19, illus. June 1974. *WR 153: 60*
[N. Dak. Game & Fish Dep., Williston]

GROUSE, PARTRIDGE, ETC.

Alkon, Philip Uriel. SOCIAL BEHAVIOR OF A POPULATION OF CHUKAR PARTRIDGE *(ALECTORIS CHUKAR CYPRIOTES)* IN ISRAEL. *Ph.D. thesis, Cornell Univ.* 191 p. 1974. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 60*

Aubin, A. E. AURAL COMMUNICATION IN RUFFED GROUSE. *Can. J. Zool.* 50. p. 1225-1229. 1972. [From Auk 91(1), 1974.] *WR 153: 61*

Ballard, Warren B., and Robert J. Robel. REPRODUCTIVE IMPORTANCE OF DOMINANT MALE GREATER PRAIRIE CHICKENS. *Auk* 91(1): 75-85, 2 figs. Jan. 1974. *WR 153: 61*
[Kans. State Univ., Manhattan 66506] *"Tympanuchus cupido pinnatus."*--Courtesy/ Paul A. Stewart.

Garbutt, Allan, and A. L. A. Middleton. MOLT SEQUENCE OF CAPTIVE RUFFED GROUSE. *Auk* 91(2): 421-423, 1 fig. Apr. 1974. *WR 153: 61*
[Univ. Guelph, Guelph, Ontario N1G 2W1, Canada] *"Bonasa umbellus."*--Courtesy/ Paul A. Stewart.

Hewson, Raymond. THE MOULTS OF CAPTIVE SCOTTISH PTARMIGAN *(LAGOPUS MUTUS). J. Zool. Proc. Zool. Soc. Lond.* 171(2): 177-187, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 61*
[Nat. Conservancy, Banchory, Scotland]

Huff, Dan Edward. A PRELIMINARY STUDY OF RUFFED GROUSE-ASPEN NUTRIENT RELATIONSHIPS. *Ph.D. thesis, Univ. Minn.* 160 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 61*

Kobriger, Gerald D. SAGE SEASON SUMMARY. *N. Dak. Outdoors* 36(10): 2-6, 6 figs. Apr. 1974. *WR 153: 61*
[Dickinson, N. Dak.] A summarization of past sage grouse population and harvest data for N. Dak.

Lucid, Vincent J. NOCTURNAL ACTIVITY AND VOCALIZATION BY A RUFFED GROUSE. *Bird-Banding* 45(2): 179. Spring 1974. *WR 153: 61*
[Va. Polytechnic Inst., Blacksburg 24061] *"Bonasa umbellus."*--Courtesy/ Paul A. Stewart.

Ostrovskii, A. I. [SOME MATERIALS ON REPRODUCTION OF THE CARPATHIAN *TETRAO UROGALLUS* L.] *Vestn. Zool.* 7(4): 2124. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with English summ.] *WR 153: 61*

Reichholf, Josef. DER EINFLUSS DER FLURBEREINIGUNG AUF DEN BESTAND AN REBHUEHNERN *(PERDIX PERDIX).* [THE INFLUENCE OF AGRICULTURAL LAND REFORM ("FLURBEREINGUNG") ON THE STOCKS OF GREY PARTRIDGE *(PERDIX PERDIX).*] *Anz. Ornithol. Ges. Bayern* 12(2): 100-105, illus. 1973. [From Biol. Abstr. 57(7), 1974. In German with English summ.] *WR 153: 61*
[Nr. 69 1/5, 8399 Aigen/Inn, West Germany]

Salo, Leo J. CHEMICAL COMPOSITION AND CALORIC CONTENT OF THE AUTUMN AND WINTER DIET OF *TETRASTES BONASIA* L. IN NORTHEASTERN FINNISH LAPLAND. *Ann. Zool. Fenn.* 10(2): 384-387. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 61*
[Univ. Helsinki, SF-00710 Helsinki 71, Finland]

Samuel, David E. RUFFED GROUSE VOCALIZATIONS AT THE DRUMMING LOG. *Wilson Bull.* 86(2): 131-135, 2 figs. June 1974. *WR 153: 61*
[W. Va. Univ., Morgantown 26506] *"Bonasa umbellus."*--Courtesy/ Paul A. Stewart.

Schiller, Robert John. REPRODUCTIVE ECOLOGY OF FEMALE SHARP-TAILED GROUSE *(PEDIOECTES PHASIANELLUS)* AND ITS RELATIONSHIP TO EARLY PLANT SUCCESSION IN NORTHWESTERN MINNESOTA. *Ph.D. thesis, Univ. Minn.* 186 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 61*

Watson, Adam. MOULTS OF WILD SCOTTISH PTARMIGAN, *LAGOPUS MUTUS* IN RELATION TO SEX, CLIMATE AND STATUS. *J. Zool. Proc. Zool. Soc. Lond.* 171(2): 207-223, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 61*
[Nat. Conservancy, Blackhall, Banchory, Scotland]

West, J. L. CASE REPORT--ARRHENOBLASTOMA IN A CHUKAR PARTRIDGE. *Avian Dis.* 18(2): 258-261, 2 figs. Apr.-June 1974. *WR 153: 62*
[UT-AEC Comparative Animal Res. Lab., 1299 Bethel Valley Road, Oak Ridge, Tenn. 37830]

DOVES & PIGEONS

Aguirre, Alvaro C. CONTRIBUICÃO PARA O ESTUDO DO CONTEÚDO GÁSTRICO DA *ZENAIDA AURICULATA* (DES MURS). [CONTRIBUTIONS ON THE STUDY OF STOMACH CONTENTS OF *ZENAIDA AURICULATA* (DES MURS).] *Brasil Florestal* 4(16): 71-75. Oct.-Dec. 1973. In Portuguese. *WR 153: 62*

Alexander, Judith, and William T. Keeton. CLOCK-SHIFTING EFFECT ON INITIAL ORIENTATION OF PIGEONS. *Auk* 91(2): 370-374, 1 fig. Apr. 1974. *WR 153: 62*
[Cornell Univ., Ithaca, N.Y. 14850] *"Columba livia."* No evidence was found that the sun's altitude, rate of change of altitude, or position in arc was biologically meaningful to the pigeons.--Courtesy/ Paul A. Stewart.

Benvenuti, S., V. Fiaschi, L. Fiore, and F. Papi. DISTURBANCES OF HOMING BEHAVIOR IN PIGEONS EXPERIMENTALLY INDUCED BY OLFACTORY STIMULI. *Monit. Zool. Ital.* 7(1/2): 117-128, illus. 1973. [From Biol. Abstr. 57(10), 1974. In English with Italian summ.] *WR 153: 62*
[Univ. Pisa, 56100 Pisa, Italy]

Bucher, Enrique H., and Manuel Nores. ALIMENTACION DE PICHONES DE LA PALOMA *ZENAIDA AURICULATA*. [FOOD HABITS OF THE EARED DOVE *ZENAIDA AURICULATA*.] *Hornero* 11(3): 209-216, 3 figs. 1973. In Spanish with English summ. *WR 153: 62*
[Univ. Nac. Córdoba, Avenida Vélez Sarsfield 299, Córdoba, Argentina]

Chelazzi, G., and L. Pardi. EXPERIMENTS ON THE HOMING BEHAVIOR OF CAGED PIGEONS. *Monit. Zool. Ital.* 6. p. 63-73. 1972. [From Bird-Banding 45(1), 1974.] *WR 153: 62*

Ferrando, R., R. Wolter, C. Fourlon, and M. Morice. LE LAIT DE PIGEON. [PIGEON'S MILK.] *Ann. Nutr. Aliment.* 25(3): 241-251. 1971. [From Bird-Banding 44(1), 1973. In French with English summ.] *WR 153: 62*

Graf, Virgil. DE LANGE CHARACTERISTICS FOR THE FRESH-WATER TURTLE *CHRYSEMYS PICTA PICTA*, AND THE PIGEON *COLUMBA LIVIA*. *Vision Res.* 13(10): 1815-1822, illus. 1973. [From Biol. Abstr. 57(8), 1974. In English with French, German and Russian summ.] *WR 153: 62*
[Dartmouth Coll., Hanover, N.H.]

Greiner, Ellis C., and William L. Baxter. A LOCALIZED EPIZOOTIC OF TRICHOMONIASIS IN MOURNING DOVES. *J. Wildl. Dis.* 10(2): 104-106. Apr. 1974. *WR 153: 62*
[Iowa State Univ., Ames 50010] *"Zenaida macroura."*

Gurtler, W. ARTISOLIERENDE PARAMETER DES REVIERRUFS DER TURKENTAUBE *(STREPTOPELIA DECAOCTO)*. [SPECIES-ISOLATING PARAMETER OF THE TERRITORIAL CALL OF THE COLLARED TURTLE DOVE *(STREPTOPELIA DECAOCTO)*.] *J. Ornithol.* 114. p. 305-316. 1973. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 62*

Harman, Roger E. RESPONSE ELIMINATION IN CONCURRENT AND SINGLE OPERANT SITUATIONS WITH PIGEONS. *Learn. Motiv.* 4(4): 417-431, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 62*
[Eastern Wash. State Coll., Cheney 99004]

Keeton, William T. RELEASE-SITE BIAS AS A POSSIBLE GUIDE TO THE "MAP" COMPONENT IN PIGEON HOMING. *J. Comp. Physiol.* 86(1): 1-16, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 62*
[Cornell Univ., Ithaca, N.Y. 14850]

Kekilova, A. F. [THE ECOLOGY OF *STREPTOPELIA SENEGALENSIS ERMANNI* NEAR THE KOPET-DAH REGIONS OF THE TURKMEN SSR.] *Izv. Akad. Nauk Turkm. SSR Ser. Biol. Nauk* 4. p. 63-69, illus. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with Turkmensk and English summ.] *WR 153: 63*
[Acad. Sci. Turkmensk SSR, Askhabed, USSR]

Kubik, Vladimir, and Frantisek Balat. ZUR POPULATIONSDYNAMIK DER TUERKEN-TAUBE, *STREPTOPELIA DECAOCTO* (FRIV.) IN BRNO, CSSR. [ON THE POPULATION DYNAMICS OF THE COLLARED TURTLE DOVE *STREPTOPELIA DECAOCTO* (FRIV.) IN BRNO, CZECHOSLOVAKIA.] *Zool. Listy* 22(1): 59-72. 1973. [From Biol. Abstr. 57(8), 1974. In German with English summ.] *WR 153: 63*
[Masna 16, Brno, Czechoslovakia]

Lambe, Dean R., and Carl J. Erickson. OVARIAN ACTIVITY OF FEMALE RING DOVES *(STREPTOPELIA RISORIA)* EXPOSED TO MARGINAL STIMULI FROM MALES. *Physiol. Psychol.* 1(3): 281-283, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 63*
[Marietta Coll., Marietta, Ohio 45750]

Marshall, J., J. Mellerio, and D. A. Palmer. A SCHEMATIC EYE FOR THE PIGEON. *Vision Res.* 13(12): 2449-2453, illus. 1973. [From Biol. Abstr. 57(9), 1974. In English with French, German and Russian summ.] *WR 153: 63*
[Inst. Ophthalmol., London WC1H 9QS, England]

Montevecchi, William A. EGGSHELL REMOVAL AND NEST SANITATION IN RING DOVES. *Wilson Bull.* 86(2): 136-143, 2 figs. June 1974. *WR 153: 63*
[Rutgers Univ., New Brunswick, N.J. 07102] Experimentally introduced eggshells were removed from the nest by *Streptopelia risoria*, particularly during egg laying, incubation, and hatching.--Courtesy/ Paul A. Stewart.

Murton, R. K., E. H. Bucher, M. Nores, E. Gómez, and J. Reartes. THE ECOLOGY OF THE EARED DOVE *(ZENAIDA AURICULATA)* IN ARGENTINA. *Condor* 76(1): 80-88, 5 figs. Spring 1974. *WR 153: 63*
[Monks Wood Exp. Stn., Abbots Ripton, Huntingdon, England] Food, feeding habits, food relative to breeding, breeding biology, molt, and movements of *Zenaida auriculata*.--Courtesy/ Paul A. Stewart.

Murton, R. K., and Barbara E. Jones. THE ECOLOGY AND ECONOMICS OF DAMAGE TO BRASSICAE BY WOOD-PIGEONS *COLUMBA PALUMBUS*. *Am. Appl. Biol.* 75(1): 107-122. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 63*
[Monks Wood Exp. Stn., Abbots Ripton, Huntingdon, England]

Murton, R. K., N. J. Westwood, and A. J. Isaacson. A STUDY OF WOOD-PIGEON SHOOTING: THE EXPLOITATION OF A NATURAL ANIMAL POPULATION. *J. Appl. Ecol.* 11(1): 61-81, 13 figs. Apr. 1974. *WR 153: 63*
[Monks Wood Exp. Stn., Abbots Ripton, Huntingdon, England] *"Columba palumbus."*

Papi, F., L. Fiore, V. Fiaschi, and S. Benvenuti. EFFECT OF OLFACTORY NERVE SECTION ON THE HOMING CAPACITY OF CARRIER PIGEONS. *Monit. Zool. Ital.* 5(4): 265-267. 1971. [From Bird-Banding 43(4), 1972.] *WR 153: 63*

Papi, F., L. Fiore, V. Fiaschi, and S. Benvenuti. OLFACTION AND HOMING IN PIGEONS. *Monit. Zool. Ital.* 6. p. 85-95. 1972. [From Bird-Banding 45(1), 1974.] *WR 153: 63*

Papi, F., V. Fiaschi, S. Benvenuti, and N. E. Baldaccini. PIGEON HOMING: OUTWARD JOURNEY DETOURS INFLUENCE THE INITIAL ORIENTATION. *Monit. Zool. Ital.* 7 (1/2): 129-133, illus. 1973. [From Biol. Abstr. 57(10), 1974. In English with Italian summ.] *WR 153: 63*
[Univ. Pisa, 56100, Pisa, Italy]

Phares, C. K., and W. R. Ruegamer. PIGEON CROP SAC STIMULATION DUE TO A FACTOR PRODUCED BY PLEROCERCOIDS OF THE TAPEWORM, *SPIROMETRA MANSONOIDES*. *Proc. Soc. Exp. Biol. Med.* 143(1): 147-151, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 64*
[Univ. Nebr. Med. Cent., Omaha 68105]

Ruos, James L. MOURNING DOVE STATUS REPORT, 1972. *U.S. Fish Wildl. Serv. Spec. Sci. Rep. Wildl.* no. 176. iv + 35 p., 12 figs. 1974. For sale at 75¢ by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 64*

Schlichte, Hans-Jorg. UNTERSUCHUNGEN UEBER DIE BEDEUTUNG OPTISCHER PARAMETER FUER DAS HEIMKEHRVERHALTEN DER BRIEFTAUBE. [STUDIES ON THE IMPORTANCE OF OPTICAL PARAMETERS FOR HOMING IN CARRIER PIGEONS.] *Z. Tierpsychol.* 32(3): 257-280, illus. 1973. [From Biol. Abstr. 57(8), 1974. In German with English summ.] *WR 153: 64*
[Univ. Göttingen, Göttingen, West Germany]

Schroeder, Max H., and Charles A. Ely. RECOVERIES OF MOURNING DOVES BANDED AS NESTLINGS IN WEST-CENTRAL KANSAS. *Bird-Banding* 43(4): 257-260, 1 fig. Oct. 1972. *WR 153: 64*
[Denver Wildl. Res. Cent., Denver, Colo. 67601] *"Zenaidura macroura."*--Courtesy/ Paul A. Stewart.

Skinner, Nicholas F. ACQUISITION OF ZERO-DELAY MATCHING IN PIGEONS. *Behav. Res. Methods Instrum.* 5(6): 470-472, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 64*
[King's Coll., Univ. Western Ontario, London, Ontario N6A 2M3, Canada]

Wallraff, Hans G. THE EFFECT OF DIRECTIONAL EXPERIENCE ON INITIAL ORIENTATION IN PIGEONS. *Auk* 91(1): 24-34, 3 figs. Jan. 1974. *WR 153: 64*
[Max-Planck-Inst. Verhaltensphysiol., 8131 Seewiesen/Starnberg, Germany] Pigeons were affected in their selection of bearings by the directions of previous homing flights.--Courtesy/ Paul A. Stewart.

WATERFOWL

Abraham, R. MORTALITY OF MALLARDS EXPOSED TO GAMMA RADIATION. *Rad. Res.* 49 (2): 322-327. 1972. [From Bird-Banding 44(1), 1973.] *WR 153: 64*
"Anas platyrhynchos."

Alison, R. M. DELAYED NESTING IN OLDSQUAWS. *Bird-Banding* 44(1): 61-62. Winter 1973. *WR 153: 64*
[Ministry Nat. Resources, Toronto, Ontario, Canada] The brood of oldsquaws *(Clangula hyemalis)* hatched on 24 July.--Courtesy/ Paul A. Stewart.

Alison, R. M. OLDSQUAW HOMING IN WINTER. *Auk* 91(1): 188. Jan. 1974. *WR 153: 64*
[Ministry Nat. Resources, Toronto, Ontario, Canada] An oldsquaw *(Clangula hyemalis)* was killed on its wintering grounds near where it had been banded the previous winter.--Courtesy/ Paul A. Stewart.

Ball, Irvin Joseph. ECOLOGY OF DUCK BROODS IN A FORESTED REGION OF NORTH-CENTRAL MINNESOTA. *Ph.D. thesis, Univ. Minn.* 81 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 64*
"Anas platyrhynchos and *Aix sponsa."*

Barr, Jack Francis. FEEDING BIOLOGY OF THE COMMON LOON *(GAVIA IMMER)* IN OLIGOTROPHIC LAKES OF THE CANADIAN SHIELD. *Ph.D. thesis, Univ. Guelph.* 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 64*

Bitely, Ralph A. LEAD POISONING OF WATERFOWL IN MARYLAND. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 63. p. 91-96. 1973. *WR 153: 65*
[Md. Dep. Nat. Resour., State Office Bldg., Annapolis 21401]

Bourns, T. K. R., James C. Ellis, and Manfred E. Rau. MIGRATION AND DEVELOPMENT OF *TRICHOBILHARZIA OCELLATA* (TREMATODA, SCHISTOSOMATIDAE) IN ITS DUCK HOSTS. *Can. J. Zool.* 51(10): 1021-1030, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 65*
[Univ. Western Ontario, London, Ontario, Canada]

Bradley, E. L., and W. N. Holmes. THE ROLE OF THE NASAL GLANDS IN THE SURVIVAL OF DUCKS *(ANAS PLATYRHYNCHOS)* EXPOSED TO HYPERTONIC SALINE DRINKING WATER. *Can. J. Zool.* 50. p. 611-617. 1972. [From Auk 91(1), 1974.] *WR 153: 65*

Catlett, Robert H., and Barbara L. Johnston. CARDIAC RESPONSE TO DIVING IN WILD DUCKS. *Comp. Biochem. Physiol. A Comp. Physiol.* 47(3): 925-931, 2 figs. Mar. 1974. *WR 153: 65*
[Calif. State Univ., San Diego 92115] Abstract: 1. Submersion of the head in water causes bradycardia in the redhead *(Aythya americana)*, lesser scaup *(Aythya affinis)*, ruddy duck *(Oxyura jamaicensis)* and the pintail *(Anas acuta)*. 2. Differences in development of bradycardia were demonstrated among the four species. Redheads and ruddy ducks have the most rapid response and the sharpest decline in heart rate. Pintails and lesser scaups showed a lesser decline and rate of development of bradycardia, pintails showing the least. 3. Redheads, lesser scaups and ruddy ducks reached an average decline of 45 heartbeats/min within 5 sec after submergence. Pintails reached this average decline after 20 sec of submergence.

Cowan, P. J. INDIVIDUAL DIFFERENCES IN ALARM CALLS OF CANADA GEESE LEADING BROODS. *Auk* 91(1): 189-191, 2 figs. Jan. 1974. *WR 153: 65*
[Univ. Manitoba, Winnipeg, Manitoba, Canada] Spectrographic analysis showed that alarm calls were different for individual Canada geese *(Branta canadensis)*. --Courtesy/ Paul A. Stewart.

Dwyer, Thomas J. AN ADJUSTABLE RADIO-PACKAGE FOR DUCKS. *Bird-Banding* 43(4): 282-284, 1 fig. Oct. 1972. *WR 153: 65*
[Northern Prairie Wildl. Res. Cent., Jamestown, N. Dak. 58401] Courtesy/ Paul A. Stewart.

Dwyer, Thomas J. SOCIAL BEHAVIOR OF BREEDING GADWALLS IN NORTH DAKOTA. *Auk* 91(2): 375-386, 2 figs. Apr. 1974. *WR 153: 65*
[Northern Prairie Wildl. Res. Cent., Jamestown, N. Dak. 58401] *"Anas strepera."*--Courtesy/ Paul A. Stewart.

Fournier, O., and F. Spitz. QUELQUES DONNÉES SUR LES SARCELLES D'HIVER *(ANAS CRESSA)* DANS LE SUD DE LA VENDÉE. [SOME CONTRIBUTIONS ON WINTERING TEALS *(ANAS CRESSA)* IN THE SOUTH OF VENDEE.] *Oiseau* 42. p. 170-178. 1972. [From Auk 91 (1), 1974. In French.] *WR 153: 65*

Friend, Milton, and Gary L. Pearson. DUCK PLAGUE *(DUCK VIRUS ENTERITIS)* IN WILD WATERFOWL. *U.S. Dept. Inter. Bur. Sport Fish. Wildl.* 16 p., 16 figs. 1973. For sale at 40¢ from Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 65*
[Denver Wildl. Res. Cent., Denver, Colo. 80215]

Gibson, G. G., E. Broughton, and L. P. E. Choquette. WATERFOWL MORTALITY CAUSED BY *CYATHOCOTYLE BUSHIENSIS* KAHN, 1962 (TREMATODA: CYATHOCOTYLIDAE), ST. LAWRENCE RIVER, QUEBEC. *Can. J. Zool.* 50. p. 1351-1356. 1972. [From Auk 91(1), 1974.] *WR 153: 65*
"Anas rubripes, A. discors, and *A. carolinensis."*

Grubb, M. M. SEASONAL POPULATION LEVELS, BREEDING AND HUNTING OF WATERFOWL ON THE NEW RIVER, VIRGINIA. *M.S. thesis, Va. Polytech. Inst.* 63 p. 1973. *WR 153: 66*
Courtesy/ Burd S. McGinnes.

Haapanen, Antti. INLAND AND COASTAL WATERFOWL CENSUS IN FINLAND: A REVIEW. *Riistatiet. Julk.* 33. p. 3-11, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 66*
[Univ. Helsinki, Helsinki, Finland]

Haapanen, Antti, and Olli Paasivirta. THE WATERFOWL IN EUTROPHIC WATERS IN SOUTH WEST FINLAND. *Riistatiet. Julk.* 33. p. 13-26, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 66*
[Univ. Helsinki, Helsinki, Finland]

Havlin, Jiri. ANALYSE DER JAGDBEAUTE AN WASSERVOEGELIN IM TIEFLAND VON BARABA (SW-SIBIRIEN). [ANALYSIS OF THE WATERFOWL SHOT IN THE BARABA LOWLAND (SW-SIBERIA).] *Zool. Listy* 21(4): 347-358, illus. 1972. [From Biol. Abstr. 57(7), 1974. In German with English summ.] *WR 153: 66*
[Czech. Acad. Sci., Kvetna 8, Brno, Czechoslovakia]

Hesse, J. INTRODUCTION À L'ÉTUDE DES STATIONNEMENTS HIVERNAUX EN SOLOGNE HUMIDE. [INTRODUCTION TO THE STUDY OF WINTERING GROUNDS IN HUMID SOLOGNE.] *Oiseau* 41. p. 257-282. 1971. [From Auk 91(1), 1974. In French.] *WR 153: 66*
"Ducks."

Jenni, Donald A., and Roger D. Gambs. DIVING TIMES OF GREBES AND MASKED DUCKS. *Auk* 91(2): 415-417. Apr. 1974. *WR 153: 66*
[Univ. Mont., Missoula 59801] Considerable variation was found in submergence times and surface pauses, suggesting that these are associated with feeding conditions rather than being characteristic of species.--Courtesy/ Paul A. Stewart.

Koning, F. J. QUANTITATIVE ANGABEN UEBER DIE IN DER TUERKEI UEBERWINTERNDEN ANATIDEN. [QUANTITATIVE DATA ON ANATIDAE WHICH SPEND WINTER IN TURKEY.] *Bonn. Zool. Beitr.* 24(3): 219-226. 1973. [From Biol. Abstr. 57(10), 1974. In German with English summ.] *WR 153: 66*
[Belkmerveg 35, Burgervlotbrug N. H., Netherlands]

Kozicky, Edward, and John Madson. NILO SHOTSHELL EFFICIENCY TEST ON EXPERIMENTAL MALLARD DUCKS, 1972-73. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 63. p. 100-117, 2 figs. 1973. *WR 153: 66*
[Winchester-Western Div., Olin, East Alton, Ill. 62024]

Krapu, Gary L. FEEDING ECOLOGY OF PINTAIL HENS DURING REPRODUCTION. *Auk* 91 (2): 278-290, 1 fig. Apr. 1974. *WR 153: 66*
[Northern Prairie Wildl. Res. Cent., Jamestown, N. Dak. 58401] The diet of the female pintail *(Anas acuta)* before, during, and after egg laying are described and the impact of certain environmental and physiological changes on the bird's breeding is discussed.--Courtesy/ Paul A. Stewart.

Kuehnel, Wolfgang, and Henning M. Beier. MORPHOLOGIE UND CYTOCHEMIE DER HARDERSCHEN DRUESE VON ANATIDEN. [MORPHOLOGY AND CYTOCHEMISTRY OF THE HARDERIAN GLAND OF ANATIDAE.] *Z. Zellforsch. Mikrosk. Anat.* 141(2): 255-283, illus. 1973. [From Biol. Abstr. 57(9), 1974. In German with English summ.] *WR 153: 66*
[Univ. Kiel, D-2300 Kiel, West Germany] *"Anser anser, Anas platyrhynchos,* and *Cygnus olor."*

March, James R., Gerald F. Martz, and Richard A. Hunt. BREEDING DUCK POPULATIONS AND HABITAT IN WISCONSIN. *Wis. Dep. Nat. Resour. Tech. Bull.* no. 68. p. 1-37, 14 figs. 1973. *WR 153: 66*

Marchand, C. R., and L. Gomot. LE CYCLE TESTICULAIRE DU CANARD DE BARBARIE *(CAIRINA MOSCHATA* L.). [THE TESTICULAR CYCLE OF THE BARBARY DRAKE *(CAIRINA MOSCHATA* L.).] *Bull. Assoc. Anat.* 58(157): 367-374, illus. 1973. [From Biol. Abstr. 57(10), 1974. In French with English summ.] *WR 153: 67*
[Lab. Zool.-Embryol., E. R. A., CNRS no. 229, Pl. Leclerc, 25-Besancon, France]

Mathiasson, Sven. SLOTTSSKOGENS GRASANDER: EN MIGRATIONSEKOLOGISK POPULATIONSSTUDIE. [THE MALLARDS OF SLOTTSSKOGEN: A POPULATION STUDY OF MIGRATION ECOLOGY.] *Goteb. Naturhist. Mus. Arstryck* 1971: 13-36, illus. 1971. [From Biol. Abstr. 57(8), 1974. In Swedish.] *WR 153: 67*
[Naturhist. Mus., 400 30 Goteborg 11, Sweden]

McIntyre, Anthony E., and Judith W. McIntyre. SPOTS BEFORE THE EYES, AN AID TO IDENTIFYING WINTERING LOONS. *Auk* 91(2): 413-415, 3 figs. Apr. 1974. *WR 153: 67*
[Univ. Minn., Minneapolis 55455] *"Gavia immer* and *G. arctica."*--Courtesy/ Paul A. Stewart.

McIntyre, Judith W. TERRITORIAL AFFINITY OF A COMMON LOON. *Bird-Banding* 45 (2): 178. Spring 1974. *WR 153: 67*
[Univ. Minn., Minneapolis 55455] *"Gavia immer."*--Courtesy/ Paul A. Stewart.

McLaughlin, J. Daniel, and Michael D. B. Burt. CHANGES IN THE CESTODE FAUNA OF THE BLACK DUCK, *ANAS RUBRIPES* (BREWSTER). *Can. J. Zool.* 51(9): 1001-1006, illus. 1973. [From Biol. Abstr. 57(8), 1974. In English with French summ.] *WR 153: 67*
[Loyola Coll., Montreal 262, Quebec, Canada]

Nelson, Lewis, Jr. AN ANALYSIS OF HUNTER DEMOGRAPHICS AND ATTITUDES TOWARD THE 1970-71 WATERFOWL POINT SYSTEM SEASONS IN THE ATLANTIC, MISSISSIPPI, AND CENTRAL FLYWAYS. *Ph.D. thesis, Utah State Univ.* 124 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 67*

Olrog, C. C. RECOVERIES OF BANDED ARGENTINE WATERFOWL. *Bird-Banding* 45(2): 170-177, 6 figs. Spring 1974. *WR 153: 67*
[Instituto Mignel Lillo, Tucumán, Argentina] Courtesy/ Paul A. Stewart.

Patterson, James Howard. THE ROLE OF WETLAND HETEROGENEITY IN THE REGULATION OF DUCK POPULATIONS IN EASTERN ONTARIO. *Ph.D. thesis, Carleton Univ.* (Canada). 1972. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 67*

Perret, Nolan G. LEAD POISONING IN WATERFOWL--A CANADIAN APPROACH TO THE PROBLEM. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 63. p. 87-91. 1973. *WR 153: 67*
[Canadian Wildl. Serv., Ottawa, Ontario, Canada]

Rajecki, D. W., and Howard Eichenbaum. DISTRESS AND CONTENTMENT CALLS OF THE PEKING DUCKLING *(ANAS PLATYRHYNCHOS)*: DURATION AND INTENSITY. *Percept. Mot. Skills* 37(2): 547-551. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 67*
[Univ. Wis., Madison 53706]

Rogers, John P. IRON SHOT--A VIEW OF THE ISSUES. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 63. p. 96-99. 1973. *WR 153: 67*
[U.S. Fish Wildl. Serv., Washington, D.C.]

Rundquist, Vaughn Marlan. AVIAN ECOLOGY ON STOCK PONDS IN TWO VEGETATIONAL TYPES IN NORTH-CENTRAL MONTANA. *Ph.D. thesis, Mont. State Univ.* 125 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 67*
"Anas platyrhynchos, A. acuta, A. discors, and *Mareca americana."*

Rylander, Michael Kent, and Eric G. Bolen. FEEDING ADAPTATIONS IN WHISTLING DUCKS *(DENDROCYGNA)*. *Auk* 91(1): 86-94, 6 figs. Jan. 1974. *WR 153: 68*
[Tex. Tech Univ., Lubbock 79409] Evidence of parallel evolution between the two species representing sympatric populations in North America *(D. autumnalis* and *D. bicolor)* and the two species that are sympatric in Australia *(D. eytoni* and *D. arcuata)* is presented.--Courtesy/ Paul A. Stewart.

Seymour, Norman R. SITE ATTACHMENT IN THE NORTHERN SHOVELER. *Auk* 91(2): 423-427. Apr. 1974. *WR 153: 68*
[St. Francis Xavier Univ., Antigonish, Nova Scotia, Canada] "These results therefore provide definite evidence that a site *per se*, and not just the female, may provide a basis for attachment and apparent defensive behavior in this species."--Courtesy/ Paul A. Stewart.

Siegfried, W. R. SUMMER FOOD AND FEEDING OF THE RUDDY DUCK IN MANITOBA. *Can. J. Zool.* 51(12): 1293-1297. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 68*
[Univ. Cape Town, Rondebosch, South Africa]

Smith, J. M. VARIATIONS IN DUCK NUMBERS AT CHRISTCHURCH DURING THE 1967 NEW ZEALAND SHOOTING SEASON. *Notornis* 19. p. 36-41. 1972. [From Auk 91(2), 1974.] *WR 153: 68*
"Anas superciliosa and *Anas platyrhynchos."* Flight patterns, feeding habits, and behavior.

Stewart, Paul A. MOTHER WOOD DUCKS FEEDING AWAY FROM THEIR BROODS. *Bird-Banding* 45(1): 58. Winter 1974. *WR 153: 68*
[203 Mooreland Dr., Oxford, N.C. 27565] Mother wood ducks *(Aix sponsa)* fed elsewhere than with the broods they were leading.

Stewart, Robert E., and Harold A. Kantrud. BREEDING WATERFOWL POPULATIONS IN THE PRAIRIE POTHOLE REGION OF NORTH DAKOTA. *Condor* 76(1): 70-79, 1 fig. Spring 1974. *WR 153: 68*
[Northern Prairie Wildl. Res. Cent., Jamestown, N. Dak. 58401] The estimated average number of ducks nesting in the Prairie Pothole Region of North Dakota is 1,619,000 pairs, including 1,450,000 pairs of dabbling ducks and 169,000 pairs of diving ducks. The mallard exhibited the highest average frequency (65%) and the blue-winged teal the highest average density (13.9 pairs per square mile).--Courtesy/ Paul A. Stewart.

Stott, Richard S., and David P. Olson. SEA DUCK POPULATIONS ON THE NEW HAMPSHIRE COASTLINE. *N.H. Agric. Exp. Stn. Res. Rept.* no. 33. 26 p., 9 figs. Jan. 1974. *WR 153: 68*
[Bombay Hook Natl. Wildl. Refuge, Smyrna, Del. 19977] *"Melanitta deglandi, M. perspicillata, Oidemia nigra, Clangula hyemalis, Somateria mollissima, Bucephala clangula, B. albeola,* and *Mergus serrator."*

Tamisier, A. EXIGENCES FONDAMENTALES DES SARCELLES D'HIVER EN PÉRIODE D'HIVERNAGE. [FUNDAMENTAL REQUIREMENTS OF THE EUROPEAN TEAL DURING THE WINTERING PERIOD.] *Oiseau* 42. p. 179-182. 1972. [From Auk 91(2), 1974. In French.] *WR 153: 68*
[Cent. Ecol. Camargue, 13-Le Sambuc, France] *"Anas crecca."*

Tamisier, Alain. REGIME ALIMENTAIRE DES SARCELLES D'HIVER *ANAS CRECCA* L. EN CAMARGUE. [THE DIET OF TEAL DUCKS, *ANAS CRECCA* L., IN THE CAMARGUE REGION.] *Alauda* 39(4): 261-311, illus. 1971. [From Biol. Abstr. 57(11), 1974.] *WR 153: 68*
[Cent. Ecol. Camargue, 13-Le Sambuc, France]

Titman, Rodger Donaldson. THE ROLE OF THE PURSUIT FLIGHT IN THE BREEDING BIOLOGY OF THE MALLARD. *Ph.D. thesis, Univ. New Brunswick* (Canada). 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 68*

Trauger, David L. EYE COLOR OF FEMALE LESSER SCAUP IN RELATION TO AGE. *Auk* 91(2): 243-254, 1 pl. Apr. 1974. *WR 153: 69*
[Northern Prairie Wildl. Res. Cent., Jamestown, N. Dak. 58401] Eye color of female lesser scaup *(Aythya affinis)* changed progressively between the first and third years of life.--Courtesy/ Paul A. Stewart.

Westerskov, K. E. HISTORY OF DISTRIBUTION OF THE CRESTED GREBE *(PODICEPS CRISTATUS)* IN THE NORTH ISLAND AND NELSON-MARLBOROUGH. *Notornis* 19. p. 74-82. 1972. [From Auk 91(2), 1974.] *WR 153: 69*

SWANS & GEESE

Bennett, G. F., and C. D. MacInnes. BLOOD PARASITES OF GEESE OF THE MCCONNELL RIVER, N.W.T. *Can. J. Zool.* 50. p. 1-4. 1972. [From Auk 91(1), 1974.] *WR 153: 69*

Bertelsen, Ola. THE CHEMICAL COMPOSITION OF THE WAX IN THE FREE-FLOWING SECRETION OF WATERFOWL OF THE GENUS *CYGNUS* (SWANS). *Chem. Scr.* 4(14): 163-173, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 69*
[Univ. Goteborg, Goteborg, Sweden] *"Cygnus* spp. and *Coscoroba coscoroba."*

Brown, L. H., and M. K. Selly. ABUNDANCE OF THE PYGMY GOOSE *NETTAPUS AURITUS* IN THE OKAVANGO SWAMPS, BOTSWANA. *Ostrich* 44. p. 84. 1973. [From Auk 91(1), 1974.] *WR 153: 69*

Delnicki, Don. ROSS' GOOSE-SNOW GOOSE HYBRID IN SOUTH TEXAS. *Auk* 91(1): 174. Jan. 1974. *WR 153: 69*
[Welder Wildl. Foundation, Sinton, Tex. 78387] Courtesy/ Paul A. Stewart.

Haapanen, Antti, Matti Helminen, and Hannu K. Suomalainen. THE SPRING ARRIVAL AND BREEDING PHENOLOGY OF THE WHOOPER SWAN, *CYGNUS C. CYGNUS*, IN FINLAND. *Riistatiet. Julk.* 33. p. 32-37, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 69*
[Univ. Helsinki, Helsinki, Finland]

Haapanen, Antti, Matti Helminen, and Hannu K. Suomalainen. POPULATION GROWTH AND BREEDING BIOLOGY OF THE WHOOPER SWAN, *CYGNUS C CYGNUS*, IN FINLAND IN 1950-1970. *Riistatiet. Julk.* 33. p. 40-60, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 69*
[Univ. Helsinki, Helsinki, Finland]

Nedzinskas, V. [THE ECOLOGY OF THE LITHUANIAN POPULATION OF THE MUTE SWAN, *CYGNUS OLOR.*] *Zool. Zh.* 52(9): 1360-1366, illus. 1973. [From Biol. Abstr. 57 (11), 1974. In Russian with English summ.] *WR 153: 69*

Nilsson, L. [THE 1972 BREEDING POPULATION OF THE MUTE SWAN *CYGNUS OLOR* IN SCANIA AND BLEKINGE, SOUTHERN SWEDEN.] *Vår Fågelvärld* 32. p. 115-119. 1973. [From Auk 91(2), 1974. In Swedish with English summ.] *WR 153: 69*

Smithey, Douglas A. SOCIAL ORGANIZATION, BEHAVIOR AND MOVEMENT OF BLUE AND SNOW GEESE WINTERING IN LOUISIANA AND EAST TEXAS. *M.S. thesis, La. State Univ.* 135 p. 1973. *WR 153: 69*
"Chen caerulescens caerulescens."--Courtesy/ Ann J. Owens.

Soikkeli, Martti. DECREASE IN NUMBERS OF MIGRATING LESSER WHITE-FRONTED GEESE, *ANSER ERYTHROPUS*, IN FINLAND. *Riistatiet. Julk.* 33. p. 27-30. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 69*
[Univ. Turku, Turku, Finland]

Akester, A. R., D. E. Pomeroy, and M. D. Purton. SUBCUTANEOUS AIR POUCHES IN THE MARABOU STORK *(LEPTOPTILOS CRUMENIFERUS)*. *J. Zool. Proc. Zool. Soc. Lond.* 170(4): 493-499, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 70*
[Univ. Cambridge, Cambridge, England] Dorsal and ventral s.c., dilatable air pouches play a part in the social life of the marabou stork. Inflation of the ventral pouch indicates the dominance of an individual over its neighbors while inflation of the dorsal pouch indicates apprehension.

Baker, A. J. DISTRIBUTION AND NUMBERS OF NEW ZEALAND OYSTERCATCHERS. *Notornis* 20(2): 128-144. 1973. [From Bird-Banding 45(2), 1974.] *WR 153: 70*

Baker, Myron Charles. FORAGING BEHAVIOR OF BLACK-BELLIED PLOVERS *(PLUVIALIS SQUATAROLA)*. *Ecology* 55(1): 162-167, 7 figs. Winter 1974. *WR 153: 70*
[Rockefeller Univ., New York, N.Y. 10021] Foraging success was greater during fall migration than spring. The time spent searching for an item of food decreased when the diet became more diverse. Success of a given predation attempt shortened the distance traveled compared to that after unsuccessful attempts. Knowledge of the ongoing activity gives good predictive information on what the foraging bird will do next.--From abstr. Courtesy/ Paul A. Stewart.

Barlow, M. THE ESTABLISHMENT, DISPERSAL AND DISTRIBUTION OF THE SPUR-WINGED PLOVER IN NEW ZEALAND. *Notornis* 19. p. 201-211. 1972. [From Auk 91(1), 1974.] *WR 153: 70*
"Lobibyx novaehollandiae."

Barlow, M. L., P. M. Muller, and R. R. Sutton. BREEDING DATE ON THE SPUR-WINGED PLOVER IN SOUTHLAND, NEW ZEALAND. *Notornis* 19. p. 212-249. 1972. [From Auk 91(1), 1974.] *WR 153: 70*
"Lobibyx novaehollandiae."

Beintema, A. J. THE HISTORY OF THE ISLAND HEN *(GALLINULA NESIOTIS)*, THE EXTINCT FLIGHTLESS GALLINULE OF TRISTAN DA CUNHA. *Bull. Brit. Ornithol. Club* 92. p. 106-113. 1972. [From Auk 91(1), 1974.] *WR 153: 70*

Belton, William. CATTLE EGRETS IN RIO GRANDE DO SUL, BRAZIL. *Bird-Banding* 45(1): 59. Winter 1974. *WR 153: 70*
[Caixa Postal 119, Gramado, Rio Grande do Sul, 95670, Brazil] *"Bubulcus ibis."*--Courtesy/ Paul A. Stewart.

Bennett, Gordon F., Rasul A. Khan, and A. Gillian Campbell. *LEUCOCYTOZOON GRUSI* SP. N. (SPOROZOA: LEUCOCYTOZOIDAE) FROM A SANDHILL CRANE, *GRUS CANADENSIS* (L.). *J. Parasitol.* 60(2): 359-363, 6 figs. Apr. 1974. *WR 153: 70*
[Univ. Newfoundland, St. John's, Newfoundland, Canada]

Beretzk, P., A. Keve, and I. Sterbetz. DER SICHELSTRANDLAEUFER IN UNGARN. [THE CURLEW SANDPIPER IN HUNGARY.] *Bonn. Zool. Beitr.* 24(3): 325-330. 1973. [From Biol. Abstr. 57(9), 1974. In German.] *WR 153: 70*
[Mora Ferenc Mus., Szeged, Hungary]

Broekhuysen, G. J. WHITE STORKS BREEDING IN THE BREDASDORP DISTRICT, MOST SOUTHERN PART OF THE WINTERING QUARTERS. *Vogelwarte* 26. p. 164-169. 1971. [From Auk 91(2), 1974.] *WR 153: 70*

Clark, Eldon R. WOODCOCK STATUS REPORT, 1972. *U.S. Fish Wildl. Serv. Spec. Sci. Rep. Wildl.* no. 169. iv + 50 p., 7 figs. 1973. For sale at 85¢ by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 70*

Clark, Eldon R. WOODCOCK STATUS REPORT, 1973. *U.S. Fish Wildl. Serv. Spec. Sci. Rep. Wildl.* no. 178. iv + 43 p., 6 figs. 1974. For sale at 85¢ by Supt. Documents, GPO, Washington, D.C. 20402. *WR 153: 70*

Dybbro, T. [THE KENTISH PLOVER *(CHARADRIUS ALEXANDRINUS)* BREEDING IN DENMARK.] *Dan. Ornithol. Foren. Tidsskr.* 64. p. 205-222. 1970. [From Auk 91(2), 1974. In Danish with English summ.] *WR 153: 71*

Dybbro, T., and O. H. Jørgensen. [DISTRIBUTION OF THE BLACK-TAILED GODWIT *(LIMOSA LIMOSA)*, DUNLIN *(CALIDRIS ALPINA)*, RUFF *(PHILOMACHUS PUGNAX)*, AND AVOCET *(RECURVIROSTRA AVOSETTA)* IN DENMARK 1970.] *Dan. Ornithol. Foren. Tidsskr.* 65. p. 116-128. 1971. [From Auk 91(2), 1974. In Danish with English summ.] *WR 153: 71*

Edington, J. M., P. J. Morgan, and R. A. Morgan. FEEDING PATTERNS OF WADING BIRDS ON THE GANN FLAT AND RIVER ESTUARY AT DALE. *Field Stud.* 3(5): 738-800, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 71*
[Univ. Coll., Cardiff, Wales]

Fiala, Vladmir. DER DURCHZUG DER WATVOEGEL (LIMICOLAE) IM TEICHGEBIET VON NAMEST N. OSL. [THE MIGRATION OF WADERS (LIMICOLAE) IN THE POND AREA OF NAMEST N. OSL.] *Zool. Listy* 22(3): 235-252, illus. 1973. [From Biol. Abstr. 57(11), 1974. In German with English summ.] *WR 153: 71*
[Husova 8, 656 07 Brno, Czechoslovakia]

Hadden, D. FURTHER NOTES ON THE SPOTLESS CRAKE. *Notornis* 19. p. 323-329. 1972. [From Auk 91(1), 1974.] *WR 153: 71*
"Porzana tabuensis."

Hartwick, Earl Brian. FORAGING STRATEGY OF THE BLACK OYSTERCATCHER. *Ph.D. thesis, Univ. British Columbia.* 1973. [From Diss. Abstr. Int. B Sci. Eng. 34 (12), 1974. To obtain a microfilm copy order directly from the National Library of Canada at Ottawa.] *WR 153: 71*
"Haematopus bachmani."

Hermansen, P. [TIME OF BREEDING, CLUTCH SIZE, AND DISTRIBUTION OF THE BITTERN *(BOTAURUS STELLARIS)* IN DENMARK.] *Dan. Ornithol. Foren. Tidsskr.* 66. p. 57-63. 1972. [From Auk 91(2), 1974. In Danish with German summ.] *WR 153: 71*

Higgins, Kenneth F. PROLONGED INCUBATION BEHAVIOR BY A MARBLED GODWIT. *Auk* 91(1): 167. Jan. 1974. *WR 153: 71*
[Northern Prairie Wildl. Res. Cent., Jamestown, N. Dak. 58401] A marbled godwit *(Limosa fedoa)* incubated its eggs 43 days before they were destroyed by a predator.--Courtesy/ Paul A. Stewart.

Hobson, William. THE BREEDING BIOLOGY OF THE KNOT *(CALIDRIS C. CANUTUS)* WITH SPECIAL REFERENCE TO ARCTIC NON-BREEDING. *Proc. West. Found. Vertebr. Zool.* 2 (1): 5-26, illus. 1972. [From Biol. Abstr. 57(7), 1974.] *WR 153: 71*
[WHO, Geneva, Switzerland]

Johnson, A. R. OBSERVATION ET CAPTURE D'UN PHALAROPE DE WILSON *PHALAROPUS TRICOLOR* EN CAMARGUE. [OBSERVATION AND CAPTURE OF WILSON'S PHALAROPE, *PHALAROPUS TRICOLOR* IN CAMARGUE.] *Alauda* 41(3): 233-238, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 71*
[Le Sambuc, 13200 Arles, France]

Kiff, Lloyd F., and Julia L. Kiff. FIRST SPECIMEN OF REDDISH EGRET FROM BRITISH HONDURAS. *Auk* 91(1): 170-171. Jan. 1974. *WR 153: 71*
[Western Foundation Vert. Zool., 1100 Glendon Ave., Los Angeles, Calif. 90024] *"Dichromanassa rufescens."*--Courtesy/ Paul A. Stewart.

Kushlan, James A. BLACK-CROWNED NIGHT HERON DIVING FOR PREY. *Fla. Field Nat.* 1(2): 27-28. Fall 1973. *WR 153: 71*
[Univ. Miami, Coral Gables, Fla. 33124] *"Nycticorax nycticorax."*

Kushlan, James A., and Erma J. Fisk. RANGE EXPANSION OF THE KILLDEER IN FLORIDA. *Bird-Banding* 43(4): 261-263, 1 fig. Oct. 1972. *WR 153: 72*
[Univ. Miami, Coral Gables, Fla. 33030] *"Charadrius vociferous."*--Courtesy/ Paul A. Stewart.

Kutilek, M. J. NOTES ON KITTLITZ'S SANDPLOVER AND THE BLACKSMITH PLOVER AT LAKE NAKURU. *E. Afr. Wildl. J.* 12(1): 87-91. Mar. 1974. *WR 153: 72*
[Mich. State Univ., East Lansing] *"Charadrius pecuarius* and *Hoplopterus armatus."*

Locke, Louis N., Harry M. Ohlendorf, Robert B. Shillinger, and Teresa Jareed. SALMONELLOSIS IN A CAPTIVE HERON COLONY. *J. Wildl. Dis.* 10(2): 143-145. Apr. 1974. *WR 153: 72*
[Patuxent Wildl. Res. Cent., Laurel, Md. 20811]

McCrimmon, Donald A., Jr. STRETCH AND SNAP DISPLAYS IN THE GREAT EGRET. *Wilson Bull.* 86(2): 165-167, 2 figs. June 1974. *WR 153: 72*
[N.C. State Univ., Raleigh 27607] *"Casmerodius albus."*--Courtesy/ Paul A. Stewart.

Naney, Robert H. DEVELOPMENT OF EXTERNAL SEXING AND AGING TECHNIQUES AND TRAPPING METHODS FOR COMMON SNIPE *(CAPELLA GALLINAGO DELICATA)* IN LOUISIANA. *M.S. thesis, La. State Univ.* 55 p. 1973. *WR 153: 72*
Courtesy/ Ann J. Owens.

Page, Gary. MOLT OF WINTERING LEAST SANDPIPERS. *Bird-Banding* 45(2): 93-105, 5 figs. Spring 1974. *WR 153: 72*
[Point Reyes Bird Observatory, Box 321, Bolinas, Calif. 94924] Courtesy/ Paul A. Stewart.

Polson, A., and H. Gitay. A POSSIBLE ROLE OF THE CATTLE EGRET IN THE DISSEMINATION OF THE GRANULOSIS VIRUS OF THE BOLLWORM. *Ostrich* 43. p. 231-232. 1972. [From Bird-Banding 45(2), 1974.] *WR 153: 72*
"Ardeola ibis."

Pursglove, Samuel Richard. SOME PARASITES AND DISEASES OF THE AMERICAN WOODCOCK, *PHILOHELA MINOR* (GMELIN). *Ph.D. thesis, Univ. Ga.* 288 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 72*

Resh, Vincent H., and Fred H. Whittaker. RECORDS OF HIPPOBOSCID FLIES AND OTHER ECTOPARASITES FROM CATTLE EGRETS IN PUERTO RICO. *Fla. Entomol.* 56(3): 233-234. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 72*
[Univ. Louisville, Louisville, Ky. 40208]

Soikkeli, M. DISPERSAL OF DUNLIN *CALIDRIS ALPINA* IN RELATION TO SITES OF BIRTH AND BREEDING. *Ornis Fenn.* 47. p. 1-9. 1970. [From Auk 91(2), 1974.] *WR 153: 72*

Thelle, T., and B. Netterström. [COUNTS OF WADERS IN THE DANISH WADDEN SEA, JULY AND AUGUST 1969.] *Dan. Ornithol. Foren. Tidsskr.* 65. p. 164-172. 1971. [From Auk 91(2), 1974. In Danish with English summ.] *WR 153: 72*

Thomas, D. G. MOULT OF THE BANDED DOTTEREL *(CHARADRIUS BICINCTUS)* IN WINTER QUARTERS. *Notornis* 19. p. 33-35. 1972. [From Auk 91(2), 1974.] *WR 153: 72*

Urban, Emil K. FLIGHT SPEED AND WINGFLAPPING RATE OF SACRED IBIS. *Auk* 91(2): 423. Apr. 1974. *WR 153: 72*
[Haile Sellassie I Univ., P.O. Box 1176, Addis Ababa, Ethiopia] *Threskiornis aethiopica* flew at a rate of 23.9 miles (38.4 km) per hour.--Courtesy/ Paul A. Stewart.

SHOREBIRDS, MARSH BIRDS & THEIR ALLIES--Continued

Väisänen, O. Hildén, M. Soikkeli, and S. Vuolanto. EGG DIMENSION VARIATION IN FIVE WADER SPECIES: THE ROLE OF HEREDITY. *Ornis Fenn.* 49. p. 25-44. 1972. [From Auk 91(2), 1974.] *WR 153: 73*
"Charadrius hiaticula, Calidris temminckii, C. alpina, Lobipes lobatus, and *Tringa totanus."*

Vielliard, J. AUTOECOLOGIE COMPAREE DU BECASSEAU VARIABLE *CALIDRIS ALPINA* (L.). [COMPARATIVE ECOLOGY OF THE DUNLIN.] *Alauda* 41(1-2): 1-33. 1973. [From Bird-Banding 45(1), 1974. In French with English summ.] *WR 153: 73*

Von Blotzheim, U. N. G. ZUR MAUSER VON *CHARADRIUS HIATICULA, DUBIUS,* UND *ALEXANDRINUS.* [ON THE MOLT OF *CHARADRIUS HIATICULA, DUBIUS,* AND *ALEXANDRINUS.*] *J. Ornithol.* 113. p. 323-333. 1972. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 73*

White, Clayton M., Francis S. L. Williamson, and William B. Emison. *TRINGA GLAREOLA*--A NEW BREEDING SPECIES FOR NORTH AMERICA. *Auk* 91(1): 175-177. Jan. 1974. *WR 153: 73*
[Brigham Young Univ., Provo 84602] Courtesy/ Paul A. Stewart.

SEABIRDS & THEIR ALLIES

Abdulali, Humayn. A CATALOGUE OF THE BIRDS IN THE COLLECTION OF THE BOMBAY NATURAL HISTORY SOCIETY: 13. ALCEDINIDAE. (to be continued.) *J. Bombay Nat. Hist. Soc.* 69(3): 538-546. 1972. [From Biol. Abstr. 57(11), 1974.] *WR 153: 73*

Amadon, Dean. IN MEMORIAM: ROBERT CUSHMAN MURPHY / APRIL 29, 1887 - MARCH 20, 1973. *Auk* 91(1): 1-9, 1 fig., 1 pl. Jan. 1974. *WR 153: 73*
[Am. Mus. Nat. Hist., New York, N.Y. 10024] Memorial to a long-time authority on oceanic birds.--Courtesy/ Paul A. Stewart.

Avilova, K. [ECO-MORPHOLOGICAL FEATURES OF THE EYES OF FIVE SPECIES OF LARIDAE.] *Vestn. Mosk. Univ., Otd. Biol.* 28(2): 10-16. 1973. [From Bird-Banding 45(2), 1974. In Russian with English summ.] *WR 153: 73*
"Larus argentatus, Chlidonias leucopterus, Sterna macrura (S. paradisaea), Rissa tridactyla, and *Larus canus."*

Avilova, K., and T. Korneeva. [SOME ECO-MORPHOLOGICAL FEATURES OF THE EYE IN LARIDAE AND ALCIDAE.] *Zool. Zh.* 52(10): 1521-1577. 1973. [From Bird-Banding 45(2), 1974. In Russian with English summ.] *WR 153: 73*

Boersma, P. Dee. THE GALAPAGOS PENGUIN: A STUDY OF ADAPTATIONS FOR LIFE IN AN UNPREDICTABLE ENVIRONMENT. *Ph.D. thesis, Ohio State Univ.* 235 p. 1974. [From Diss. Abstr. Int. B Sci. Eng. 35(2), 1974.] *WR 153: 73*
"Spheniscus mendiculus."

Braithwaite, R. M. NESTING HABITS OF WHITE-CAPPED NODDIES. *Sunbird* 4. p. 1-4. 1973. [From Auk 91(2), 1974.] *WR 153: 73*

Brien, Y. STATUT ACTUEL DES OISEAUX MARINS MICHEURS EN BRETAGNE. 7. MISE AU POINT EN 1970: VISITES RECENTES ET ETAT ACTUEL DES EFFECTIFS PAR LOCALITE. [CURRENT STATUS OF NESTING SEA BIRDS IN BRITTANY. 7. TAKEN IN 1970: RECENT VISITS AND CURRENT STATE OF EFFECTS BY LOCALITY.] *Ar Vran* 3. p. 167-275. 1970. [From Auk 91(1), 1974. In French.] *WR 153: 73*

Burger, Joanna. DISPERSAL AND POST-FLEDGING SURVIVAL OF FRANKLIN'S GULLS. *Bird-Banding* 43(4): 267-275, 4 figs. Oct. 1972. *WR 153: 73*
[Rutgers Univ., Newark, N.J. 07102] *"Larus pipixcan."*--Courtesy/ Paul A. Stewart.

Conroy, J. W. H. ECOLOGICAL ASPECTS OF THE BIOLOGY OF THE GIANT PETREL, *MACRONECTES GIGANTEUS* (GMELIN), IN THE MARITIME ANTARCTIC. *Br. Antarct. Surv. Sci. Rep.* 75. p. 1-74, illus. 1972. [From Biol. Abstr. 57(9), 1974.] *WR 153: 74*
[British Antarctic Survey, 30 Gillingham St., London, SW1V 1HY, England]

Conroy, J. W. H., and M. G. White. THE BREEDING STATUS OF THE KING PENGUIN *(APTENODYTES PATAGONICA)*. *Br. Antarctic Surv. Bull.* 32. p. 31-40, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 74*

Cox, J. B. THE IDENTIFICATION OF THE SMALLER AUSTRALIAN *DIOMEDEA*, AND THE STATUS OF THE *DIOMEDEA* IN SOUTH AUSTRALIA. *S. Aust. Ornithol.* 26(4): 67-75. 1973. [From Bird-Banding 45(2), 1974.] *WR 153: 74*
"Diomedea chrysostoma, D. chlororhynchos, and *D. melanophrys."*

Drury, William H. POPULATION CHANGES IN NEW ENGLAND SEABIRDS. *Bird-Banding* 45(1): 1-15. Winter 1974. *WR 153: 74*
[Mass. Audubon Soc., Lincoln 01773] Effects of pesticides, pollution and herring gulls on seabird populations are discussed. Includes a bibliography of 165 titles.--Courtesy/ Paul A. Stewart.

Duffey, D. C., and A. Poole. THE STATUS OF THE LEAST TERN ON EASTERN LONG ISLAND IN 1972. *Linnaean News-Letter* 27(1): 1-2. 1973. [From Auk 91(2), 1974.] *WR 153: 74*

Dunn, E. K. CHANGES IN FISHING ABILITY OF TERNS ASSOCIATED WITH WINDSPEED AND SEA SURFACE CONDITIONS. *Nature* 244. p. 520-521. 1973. [From Auk 91(2), 1974.] *WR 153: 74*
"Sandwich and common terns."

Eisenmann, E. *PINGUINUS* AND *ALLE* VALIDATED AS GENERIC NAMES FOR GREAT AUK AND DOVEKIE RESPECTIVELY. *Auk* 91(2): 432. Apr. 1974. *WR 153: 74*
[Am. Mus. Nat. Hist., New York, N.Y. 10024] Courtesy/ Paul A. Stewart.

Evans, Roger M. DIFFERENTIAL RESPONSIVENESS OF YOUNG RING-BILLED GULLS AND HERRING GULLS TO ADULT VOCALIZATIONS OF THEIR OWN AND OTHER SPECIES. *Can. J. Zool.* 51(7): 759-770, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 74*
[Univ. Manitoba, Winnipeg, Manitoba, Canada]

Firth, Roderick, Jr. EXPERIMENTAL CROSS-FOSTERING OF HERRING GULL AND GREAT BLACK-BACKED GULL CHICKS. *Auk* 91(1): 139-144. Jan. 1974. *WR 153: 74*
[P.O. Box 765, Amherst, Mass. 01002] The objective of this study was to determine whether foster parentage among herring gulls *(Larus argentatus)* and great black-backed gulls *(L. marinus)* would affect hatching success and chick survival.--Courtesy/ Paul A. Stewart.

Forsythe, Dennis M. LAUGHING GULL BAND RECOVERIES FROM SOUTH CAROLINA. *Bird-Banding* 43(4): 264-266. Oct. 1972. *WR 153: 74*
[The Citadel, Charleston, S.C. 29409] *"Larus atricilla."*--Courtesy/ Paul A. Stewart.

Forsythe, Dennis M. RING-BILLED AND HERRING GULL RECOVERIES FROM SOUTH CAROLINA. *Bird-Banding* 43(4): 276-281, 2 figs. Oct. 1972. *WR 153: 74*
[The Citadel, Charleston, S.C. 29409] *"Larus argentatus* and *L. delawarensis."* --Courtesy/ Paul A. Stewart.

Gochfield, Michael. PREVALENCE OF SUBCUTANEOUS EMPHYSEMA IN YOUNG TERNS, SKIMMERS AND GULLS. *J. Wildl. Dis.* 10(2): 115-120. Apr. 1974. *WR 153: 74*
[Am. Mus. Nat. Hist., New York, N.Y. 10024]

Goodman, Daniel. NATURAL SELECTION AND A COST CEILING ON REPRODUCTIVE EFFORT. *Am. Nat.* 108(961): 247-268, 1 fig. May-June 1974. *WR 153: 74*
[Cornell Univ., Ithaca, N.Y. 14850] Seabirds.

Gould, Margaret. GANNET ON KENT ISLAND, NEW BRUNSWICK. *Auk* 91(1): 175. Jan. 1974. *WR 153: 75*
[Hollins Coll., Va. 24020] *"Sula bassana."*--Courtesy/ Paul A. Stewart.

Harrington, Brian A. COLONY VISITATION BEHAVIOR AND BREEDING AGES OF SOOTY TERNS *(STERNA FUSCATA)*. *Bird-Banding* 45(2): 115-144, 5 figs. Spring 1974. *WR 153: 75*
[Manomet Bird Observatory, Box O, Manomet, Mass. 02345] Courtesy/ Paul A. Stewart.

Hiraldo, F., C. M. Herrera, and J. Hidalgo. SOBRE *LARUS MINUTUS* EN ANDALUCÍA. [ON *LARUS MINUTUS* IN ANDALUSIA.] *Ardeola* 19. p. 97-100. 1973. [From Auk 91 (1), 1974. In Spanish.] *WR 153: 75*

Hughes, M. R. THE EFFECT OF SALT GLAND REMOVAL ON CLOACAL ION AND WATER EXCRETION IN THE GROWING KITTIWAKE, *RISSA TRIDACTYLA*. *Can. J. Zool.* 50. p. 603-610. 1972. [From Auk 91(1), 1974.] *WR 153: 75*

Jarvis, M. J. F. THE ECOLOGICAL SIGNIFICANCE OF CLUTCH SIZE IN THE SOUTH AFRICAN GANNET *(SULA CAPENSIS* (LICHTENSTEIN)). *J. Anim. Ecol.* 43(1): 1-17, 3 figs. Feb. 1974. *WR 153: 75*
[Dep. Nat. Conserv., Cape Province, South Africa]

Jehl, Joseph R., Jr. AERIAL FEEDING BY A SHEARWATER. *Auk* 91(1): 188-189. Jan. 1974. *WR 153: 75*
[Nat. Hist. Mus., P.O. Box 1390, San Diego, Calif. 92112] Flying fish were attacked by an Audubon's shearwater as soon as they left the water.--Courtesy/ Paul A. Stewart.

Jehl, Joseph R., Jr. A SPECIMEN OF *LARUS GLAUCESCENS* FROM HUDSON BAY. *Wilson Bull.* 86(2): 168-169. June 1974. *WR 153: 75*
[Nat. Hist. Mus., P.O. Box 1390, San Diego, Calif. 92112] Courtesy/ Paul A. Stewart.

Johansen, Kjell, and Ronald Wesley Millard. VASCULAR RESPONSES TO TEMPERATURE IN THE FOOT OF THE GIANT FULMAR, *MACRONECTES GIGANTEUS*. *J. Comp. Physiol.* 85(1): 47-64. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 75*
[Univ. Aarhus, DK-8000, Aarhus C, Denmark]

Jonkel, George M., and Olin Sewall Pettingill, Jr. RETRACTION OF A LONGEVITY RECORD FOR A 36-YEAR-OLD HERRING GULL. *Auk* 91(2): 432. Apr. 1974. *WR 153: 75*
[Patuxent Wildl. Res. Cent., Laurel, Md. 20811] The age of a herring gull *(Larus argentatus)* was corrected to be 18 instead of 36 years, as had been earlier reported.--Courtesy/ Paul A. Stewart.

Langham, N. P. E. COMPARATIVE BREEDING BIOLOGY OF THE SANDWICH TERN. *Auk* 91 (2): 255-277, 2 figs. Apr. 1974. *WR 153: 75*
[Univ. Sains Malaysia, Penang, Malaysia] *"Thalasseus sandvicensis, Sterna dougallii, S. hirundo,* and *S. paradisaea."*--Courtesy/ Paul A. Stewart.

Lemmetyinen, Risto. CLUTCH SIZE AND TIMING OF BREEDING IN THE ARCTIC TERN IN THE FINNISH ARCHIPELAGO. *Ornis Fenn.* 50(1): 18-26, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 75*
[Univ. Turku, SF-20500 Turku 50, Finland] *"Sterna paradisaea."*

Lohrer, Fred E., and Charlotte E. Lohrer. INLAND NESTING OF THE LEAST TERN IN HIGHLANDS COUNTY, FLORIDA. *Fla. Field Nat.* 1(1): 3-5. Spring 1973. *WR 153: 75*
[Archbold Biol. Stn., Rt. 2, Box 380, Lake Placid, Fla. 33842] *"Sterna albifrons."*

Massey, B. W. RECOVERIES OF CALIFORNIA LEAST TERNS. *Western Bird Bander* 48. p. 46-47. 1973. [From Auk 91(2), 1974.] *WR 153: 75*

Nettleship, David N. NORTHERN FULMAR COLONIES ON THE SOUTH COAST OF DEVON ISLAND, N.W.T., CANADA. *Auk* 91(2): 412. Apr. 1974. *WR 153: 76*
[Canadian Wildl. Service, 2721 Highway 31, Ottawa, Ontario, Canada] *"Fulmarus glacialis."*--Courtesy/ Paul A. Stewart.

Nettleship, David N., and A. R. Lock. BLACK-LEGGED KITTIWAKES BREEDING IN LABRADOR. *Auk* 91(1): 173-174. Jan. 1974. *WR 153: 76*
[Canadian Wildl. Serv., 2721 Highway 31, Ottawa, Ontario, Canada] *"Rissa tridactyla."*--Courtesy/ Paul A. Stewart.

Nisbet, I. C. T. TERNS IN MASSACHUSETTS: PRESENT NUMBERS AND HISTORICAL CHANGES. *Bird-Banding* 44(1): 27-55, 2 figs. Winter 1973. *WR 153: 76*
[Mass. Audubon Society, Lincoln 01773] Reports substantial decreases in numbers during the last half century of all the four species of terns nesting in Massachusetts.--Courtesy/ Paul A. Stewart.

Nisbet, I. C. T. UNUSUAL PREY OF COMMON TERNS: SWIM-BLADDERS OF LARGE FISH. *Wilson Bull.* 86(2): 170-171. June 1974. *WR 153: 76*
[Mass. Audubon Society, Lincoln 01773] *"Sterna hirundo."*--Courtesy/ Paul A. Stewart.

Preston, F. W. ANCIENT ERROR IN A 1955 AUK PAPER. *Auk* 91(2): 417-418. Apr. 1974. *WR 153: 76*
[Box 49, Meridian Station, Butler, Pa. 16001] Denominators were erroneously transposed in an equation presented in an earlier paper by Preston on common tern *(Sterna hirundo)* eggs. Many numerical values were affected by the error, but the error had next to no effect on the conclusions.--Courtesy/ Paul A. Stewart.

Robertson, C. J. R., and F. Kinsky. THE DISPERSAL MOVEMENTS OF THE ROYAL ALBATROSS *(DIOMEDEA EPOMOPHORA)*. *Notornis* 19. p. 289-301. 1972. [From Auk 91 (1), 1974.] *WR 153: 76*

Ross, G. J. B. RECOVERY OF A BANDED JACKASS PENGUIN. *Ostrich* 43. p. 230. 1972. [From Auk 91(1), 1974.] *WR 153: 76*
"Spheniscus demersus."

Sealy, Spencer G. BREEDING PHENOLOGY AND CLUTCH SIZE IN THE MARBLED MURRELET. *Auk* 91(1): 10-23, 4 figs. Jan. 1974. *WR 153: 76*
[Univ. Manitoba, Winnipeg, Manitoba R3T 2N2, Canada] For the marbled murrelet *(Brachyramphus marmoratus)*, the following are discussed: pre-egg stage, nest site, timing of egg laying, clutch size, brood patch, incubation, flightless young, fledged young at sea, and timing of breeding.--Courtesy/ Paul A. Stewart.

Speich, Steven, and David A. Manuwal. GULAR POUCH DEVELOPMENT AND POPULATION STRUCTURE OF CASSIN'S AUKLET. *Auk* 91(2): 291-306, 6 figs. Apr. 1974.
WR 153: 76
[Univ. Ariz., Tucson 85721] *"Ptychoramphus aleuticus."*--Courtesy/ Paul A. Stewart.

Strait, Lawrence E., and Norman F. Sloan. LIFE TABLE ANALYSIS FOR THE WHITE PELICAN. *Inland Bird Banding News* 46(1): 20-28, 1 fig. Jan.-Feb. 1974.
WR 153: 76
[Mich. Technol. Univ., Houghton] Mortality of white pelicans *(Pelecanus erthrorhynchos)* was 41% in the first year, 16% in the second year, and an average of 21.3% during the third through the thirteenth years. There was an increase in mortality beyond the 13th year, with the oldest bird being 17 years old.--Courtesy/ Paul A. Stewart.

Strange, I. J. PENGUINS OF THE FALKLANDS. *Pac. Discovery* 26(3): 16-24. 1973. [From Auk 91(2), 1974.] *WR 153: 76*
Describes breeding cycles of rockhopper, Magellan, gentoo, macaroni, and king penguins. Also discusses predation by striated caracara *(Phalcobaenus australis)*, southern sea lion *(Otaria byronia)*, and man. Includes many fine photographs.

Stresemann, E. ÜBER DAS EINSETZEN DER HANDSCHWINGEN-MAUSER BEI MÖWEN UND SEINE AUSLÖSUNG. [ON THE START OF FLIGHT-FEATHER MOLT IN SEAGULLS AND ITS INITIATION.] *Vogelwarte* 26. p. 227-232. 1971. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 77*

Swickard, Deane K. AN EVALUATION OF TWO ARTIFICIAL LEAST TERN NESTING SITES. *Calif. Fish Game* 60(2): 88-90, 1 fig. Apr. 1974. *WR 153: 77*
[Natural Resources Office, Camp Pendleton, Calif. 92055] *"Sterna albifrons browni."*

Vooren, C. M. SEASONAL ABUNDANCE AND BEHAVIOR OF SEA BIRDS IN THE BAY OF PLENTY, NEW ZEALAND. *Notornis* 19. p. 250-260. 1972. [From Auk 91(2), 1974.] *WR 153: 77*

Williams, Timothy C., Janet M. Williams, John M. Teal, and John W. Kanwisher. HOMING FLIGHTS OF HERRING GULLS UNDER LOW VISIBILITY CONDITIONS. *Bird-Banding* 45(2): 106-114, 3 figs. Spring 1974. *WR 153: 77*
[State Univ. N.Y., Buffalo 14214] Courtesy/ Paul A. Stewart.

Winkel, W. ÜBER DEN BRUTTRIEB DER SILBERMÖWE *(LARUS ARGENTATUS)* IN BEZIEHUNG ZUR FARBE DER EIER. [ON THE BROODING DRIVE OF THE HERRING GULL *(LARUS ARGENTATUS)* IN RELATIONSHIP TO THE COLOR OF THE EGG.] *Vogelwarte* 26. p. 249-254. 1971. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 77*

Wobeser, G., G. R. Johnson, and G. Acompanado. STOMATITIS IN A JUVENILE WHITE PELICAN DUE TO *PIAGETIELLA PERALIS* (MALLOPHAGA: MENOPONIDAE). *J. Wildl. Dis.* 10 (2): 135-138, 4 figs. Apr. 1974. *WR 153: 77*
[Univ. Saskatchewan, Saskatoon, Saskatchewan, Canada S7N OWO] *"Pelecanus erythrorhynchus."*

HAWKS & OWLS

Bloom, P. H. SEASONAL VARIATION IN BODY WEIGHT OF SPARROW HAWKS IN CALIFORNIA. *Western Bird Bander* 48. p. 17-19. 1973. [From Auk 91(2), 1974.] *WR 153: 77*
"Falco sparverius."

Brosset, A. EVOLUTION DES *ACCIPITER* FORESTIERS DE L'EST DU GABON. [THE DEVELOPMENT OF *ACCIPITER* IN THE FORESTS OF EASTERN GABON.] *Alauda* 41(3): 185-201, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 77*
[Mus. Natl. Hist. Nat., 91800 Brunoy, France] *"Accipiter erythropus, A. melanoleucus, A. tousseneli,* and *A. castanilius."*

Brosset, Andre. ETUDE COMPARATIVE DE L'ONTOGENESES DES COMPORTEMENTS CHEZ LES RAPACES ACIPITRIDES ET FALCONIDES. [COMPARATIVE STUDY OF BEHAVIOUR ONTOGENY IN THE PREDATORS ACCIPITRIDAE AND FALCONIDAE.] *Z. Tierpsychol.* 32(4): 386-417, illus. 1973. [From Biol. Abstr. 57(8), 1974. In French with German and English summ.] *WR 153: 77*
[Mus. Natl. Hist. Nat., 91800 Brunoy, France]

Burnham, William A., M. Alan Jenkins, F. Prescott Ward, William G. Mattox, David M. Clement, and James T. Harris. FALCON RESEARCH IN GREENLAND, 1973. *Arctic* 27(1): 71-74. Mar. 1974. *WR 153: 77*
[Brigham Young Univ., Provo, Utah] *"Falco peregrinus."*

Carnie, S. K. PROPOSAL FOR A MODEL LAW COVERING FALCONRY AND THE PROTECTION AND MANAGEMENT OF BIRDS OF PREY. *Int. Assoc. Game Fish Conserv. Commissioners Conv.* 61. p. 75-78. 1971. *WR 153: 77*
[North American Falconers' Assoc., El Paso, Tex.]

Cheylan, Gilles. NOTES SUR LA COMPETITION ENTRE L'AIGLE ROYAL *AQUILA CHRYSAETOS* ET L'AIGLE DE BONELLI *HIERAAETUS FASCIATUS*. [NOTES ON COMPETITION BETWEEN THE GOLDEN EAGLE *AQUILA CHRYSAETOS* AND BONELLI'S EAGLE *HIERAAETUS FASCIATUS*.] *Alauda* 41(3): 203-212, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 78*
[6 Rue Littera, 13100 Aix-en-Provence, France]

Choussy, D. COMPORTEMENT PRÉNUPTIAL DU MOYEN-DUC *ASIO OTUS*. [PRENUPTIAL BEHAVIOR OF THE LONG-EARED OWL *(ASIO OTUS)*.] *Grand-duc* 2. p. 38-39. 1971. [From Auk 91(1), 1974. In French.] *WR 153: 78*

Clark, William S. SECOND RECORD OF THE KESTREL *(FALCO TINNUNCULUS)* FOR NORTH AMERICA. *Auk* 91(1): 172. Jan. 1974. *WR 153: 78*
[7800 Dassett Court, Apt. 101, Annandale, Va. 22003] Courtesy/ Paul A. Stewart.

Collopy, Michael W. PREDATORY EFFICIENCY OF AMERICAN KESTRELS WINTERING IN NORTHWESTERN CALIFORNIA. *Raptor Res.* 7(2): 25-31, 2 figs. Summer 1973. *WR 153: 78*
[Calif. State Univ., Humboldt, Arcata 95521] *"Falco sparverius."*

Conway, P. NESTING SUCCESS OF GREAT HORNED OWLS USING ARTIFICIAL PLATFORMS. *Kans. Ornithol. Soc. Bull.* 23. p. 19. 1972. [From Auk 91(1), 1974.] *WR 153: 78*
"Bubo virginianus."

Dunstan, Thomas C., and Byron E. Harrell. SPATIO-TEMPORAL RELATIONSHIPS BETWEEN BREEDING RED-TAILED HAWKS AND GREAT HORNED OWLS IN SOUTH DAKOTA. *Raptor Res.* 7(2): 49-54, 6 figs. Summer 1973. *WR 153: 78*
[Western Ill. Univ., Macomb 61455] *"Buteo jamaicensis* and *Bubo virginianus."*

Fisk, Erma J. SPARROW HAWK AS A PREDATOR IN A LEAST TERN COLONY. *Bird-Banding* 43(4): 288-289. Oct. 1972. *WR 153: 78*
[17101 S.W. 284 St., Homestead, Fla. 33030] A sparrow hawk *(Falco sparverius)* was found eating a least tern *(Sterna albifrons)* chick.--Courtesy/ Paul A. Stewart.

Glass, M. B. SOME REMARKS ON THE EVENING DEPARTURE DURING WINTER OF THE LONG-EARED OWL *(ASIO OTUS)*. *Dan. Ornithol. Foren. Tidsskr.* 65. p. 173-179. 1971. [From Auk 91(2), 1974.] *WR 153: 78*

Hays, C. ESSAI SUR LA BIOLOGIE DE REPRODUCTION DU BUSARD CENDRÉ DANS LE MORBIHAN. [STUDY OF THE REPRODUCTIVE BIOLOGY OF MONTAGU'S HARRIER IN MORBIHAN.] *Ar Vran* 4. p. 1-15. 1971. [From Auk 91(1), 1974. In French.] *WR 153: 78*
"Circus pygargus."

Houston, C. Stuart. RAPTOR BANDING IN SASKATCHEWAN. *Inland Bird Banding News* 46(1): 10-14. Jan.-Feb. 1974. *WR 153: 78*
[863 University Dr., Saskatoon, Saskatchewan, Canada S7N 0J8] Reports banding of 4,209 hawks and owls during the period 1944-1973. Great horned owls *(Bubo virginianus)* were represented by 2,035 bandings.--Courtesy/ Paul A. Stewart.

Houston, D. C. FOOD SEARCHING IN GRIFFON VULTURES. *E. Afr. Wildl. J.* 12(1): 63-77, 6 figs. Mar. 1974. *WR 153: 78*
[Univ. Edinburgh, Edinburgh, Scotland] *"Gyps africanus* and *G. ruppellii."*

Hubbard, John P. THE STATUS OF THE GRAY HAWK IN NEW MEXICO. *Auk* 91(1): 163-166. Jan. 1974. *WR 153: 78*
[Del. Mus. Nat. Hist., Greenville] Information is given to discredit reports of nesting and occurrence of the gray hawk *(Buteo nitidus)* in New Mexico.--Courtesy/ Paul A. Stewart.

Iribarren, J. J., and A. Rodriguez-Arbeola. OBSERVACIONES EN UN NIDO DEL AGUILA CULEBRERA *(CIRCAETUS GALLICUS)*, NAVARRA 1972. [OBSERVATIONS OF A NEST OF A SHORT-TOED EAGLE IN SPAIN.] *Ardeola* 19. p. 101-106. 1973. [From Auk 91(1), 1974. In Spanish.] *WR 153: 79*

Jackson, J. A., M. W. Roberts, and J. E. Wright. THE WINTER ROOSTS AND FOOD HABITS OF MARSH HAWKS IN EAST CENTRAL MISSISSIPPI. *Miss. Kite* 2. p. 25-32. 1972. [From Auk 91(1), 1974.] *WR 153: 79*

Johnson, Sara Jane. POST-FLEDGING ACTIVITY OF THE RED-TAILED HAWK. *Raptor Res.* 7(2): 43-48. Summer 1973. *WR 153: 79*
[Mont. State Univ., Bozeman 59715] *"Buteo jamaicensis."*

Kaufman, Donald W. DIFFERENTIAL OWL PREDATION ON WHITE AND AGOUTI *MUS MUSCULUS*. *Auk* 91(1): 145-150. Jan. 1974. *WR 153: 79*
[Savannah River Ecol. Lab., Drawer E, Aiken, S.C. 29809] Barn owls *(Tyto alba)* and screech owls *(Otus asio)* were more successful in capturing the white mice than the agouti mice. The owls were also more successful capturing the white mice in dense vegetation than in sparse vegetation.--Courtesy/ Paul A. Stewart.

Kaufman, Donald W. DIFFERENTIAL PREDATION ON ACTIVE AND INACTIVE PREY BY OWLS. *Auk* 91(1): 172-173. Jan. 1974. *WR 153: 79*
[Savannah River Ecol. Lab., Drawer E, Aiken, S.C. 29809] Owls ate live mice before dead ones when presented at the same time.--Courtesy/ Paul A. Stewart.

Koplin, James R. DIFFERENTIAL HABITAT USE BY SEXES OF AMERICAN KESTRELS WINTERING IN NORTHERN CALIFORNIA. *Raptor Res.* 7(2): 39-42. Summer 1973. *WR 153: 79*
[Calif. State Univ., Humboldt, Arcata 95521] *"Falco sparverius."*

Lewis, James C. FOOD HABITS OF FLORIDA BURROWING OWLS. *Fla. Field Nat.* 1(2): 28-30. Fall 1973. *WR 153: 79*
[Okla. Wildl. Res. Unit, Stillwater] *"Speotyto cunicularia floridana."*

Marti, Carl D. FEEDING ECOLOGY OF FOUR SYMPATRIC OWLS. *Condor* 76(1): 45-61, 10 figs. Spring 1974. *WR 153: 79*
[Weber State Coll., Ogden, Utah 84403] *"Bubo virginianus, Asio otus, Speotyto cunicularia,* and *Tyto alba."*--Courtesy/ Paul A. Stewart.

Martin, Dennis J. BURROW DIGGING BY BARN OWLS. Bird-Banding 44(1): 59-60, 2 figs. Winter 1973. *WR 153: 79*
[Utah State Univ., Logan 84321] *"Tyto alba."*--Courtesy/ Paul A. Stewart.

Matray, Paul F. BROAD-WINGED HAWK NESTING AND ECOLOGY. *Auk* 91(2): 307-324, 3 figs. Apr. 1974. *WR 153: 79*
[Darlington School, Rome, Ga. 30161] The following are discussed: time of spring arrival, nest sites, nest construction, role of sexes in incubation, incubation period, hatching time, care of young, development of young, and vocalizations. *"Buteo platypterus."*--Courtesy/ Paul A. Stewart.

Meyburg, B.-U. OBSERVATIONS SUR L'ABONDANCE RELATIVE DES RAPACES FALCONIFORMES DANS LE NORD ET L'OUEST DE L'ESPAGNE. [OBSERVATIONS ON THE RELATIVE ABUNDANCE OF FALCONIFORM RAPTORS IN THE NORTH AND WEST OF SPAIN.] *Ardeola* 19. p. 129-150. 1973. [From Auk 91(1), 1974. In French with Spanish, German and English summ.] *WR 153: 79*

Migliorini, R. H., C. Linder, J. L. Moura, and J. A. S. Veiga. GLUCONEOGENESIS IN A CARNIVOROUS BIRD (BLACK VULTURE). *Am. J. Physiol.* 225(6): 1389-1392. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 79*
[Ribereirão Preto, São Paulo, Brazil] *"Coragyps atratus."*

Mikkola, H. [POPULATION CRASH OF THE GREAT GREY OWL IN FINLAND IN 1971.] *Suomen Luonto* 30. p. 177-179, 213. 1971. [From Auk 91(1), 1974. In Finnish with English summ.] *WR 153: 80*

Mosher, James A., and Paul F. Matray. SIZE DIMORPHISM: A FACTOR IN ENERGY SAVINGS FOR BROAD-WINGED HAWKS. *Auk* 91(2): 325-341, 5 figs. Apr. 1974. *WR 153: 80*
[Brigham Young Univ., Provo, Utah 84602] It is suggested that the smaller size of male broad-winged hawks *(Buteo platypterus)* relative to females was evolved under selective pressure to reduce his metabolic needs thereby improving his ability to provide ample food for his mate and young during the nesting season.--Courtesy/ Paul A. Stewart.

Mueller, Helmut C. THE DEVELOPMENT OF PREY RECOGNITION AND PREDATORY BEHAVIOUR IN THE AMERICAN KESTREL *FALCO SPARVERIUS*. *Behaviour* 49(3-4): 313-324. 1974. In English with German summ. *WR 153: 80*
[Univ. N.C., Chapel Hill]

Nieboer, E. GEOGRAPHICAL AND ECOLOGICAL DIFFERENTIATION IN THE GENUS *CIRCUS*. *Ph.D. thesis, Free Univ. Amsterdam, Netherlands*. 104 p. 1973. [From Auk 91 (1), 1974.] *WR 153: 80*

Ogden, John C. THE SHORT-TAILED HAWKS IN FLORIDA. I. MIGRATION, HABITAT, HUNTING TECHNIQUES, AND FOOD HABITS. *Auk* 91(1): 95-110, 1 fig. Jan. 1974. *WR 153: 80*
[Everglades Natl. Park, Homestead, Fla. 33030] *"Buteo brachyurus."*--Courtesy/ Paul A. Stewart.

Österlof, S. [THE OSPREY *PANDION HALIAETUS* IN SWEDEN 1971.] *Vår Fågelvärld 32*. p. 100-106. 1973. [From Auk 91(2), 1974. In Swedish with English summ.] *WR 153: 80*

Parker, J. W. ACTIVITY OF RED-TAILED HAWKS AT A CORN STUBBLE FIRE. *Kans. Ornithol. Soc. Bull.* 22. p. 17-18. 1971. [From Auk 91(2), 1974.] *WR 153: 80*

Radu, Dimitrie. REPRODUCEREA ÎN CAPTIVITATE A STRIGEI *(TYTO ALBA* (SCOP.)--ORD. *STRIGIFORMES)*. [THE BREEDING IN CAPTIVITY OF *TYTO ALBA* (SCOP.)--STRIGIFORMES ORDER.] *Ocrotirea Nat.* 17(2): 183-195, 11 figs. 1973. In Romanian with English summ. *WR 153: 80*

Schaeffer, Frederick S. TACTILE BRISTLES OF SAW-WHET OWLS ARE SENSITIVE TO TOUCH. *Bird-Banding* 44(2): 125. Spring 1973. *WR 153: 80*
[84-55 Daniels St., Apt. 1k, Jamaica, N.Y. 11435] *"Aegolius acadicus."*--Courtesy/ Paul A. Stewart.

Sexton, Owen J., and Ken R. Marion. PROBABLE PREDATION BY SWAINSON'S HAWKS ON SWIMMING SPADEFOOT TOADS. *Wilson Bull.* 86(2): 167-168. June 1974. *WR 153: 80*
[Washington Univ., St. Louis, Mo. 63130] Seven Swainson's hawks *(Buteo swainsoni)* were gathered at a pond, seemingly feeding on spadefoot toads *(Scaphiopus bombifrons)* swimming on the water surface.--Courtesy/ Paul A. Stewart.

Simpson, Marcus B., Jr., and Peter G. Range. EVIDENCE OF THE BREEDING OF SAW-WHET OWLS IN WESTERN NORTH CAROLINA. *Wilson Bull.* 86(2): 173-174. June 1974. *WR 153: 80*
[Yale Univ. School of Medicine, 310 Cedar St., New Haven, Conn. 06510] *"Aegolius acadicus."*--Courtesy/ Paul A. Stewart.

Singer, Francis J. STATUS OF THE OSPREY, BALD EAGLE AND GOLDEN EAGLE IN THE ADIRONDACKS. *N.Y. Fish Game J.* 21(1): 18-31, illus. Jan. 1974. *WR 153: 80*
"Pandion haliaëtus, Haliaëtus leucocephalus, and *Aquila chrysaëtos."*

Skead, C. J. USE OF TOOLS BY THE EGYPTIAN VULTURE. *Ostrich* 42. p. 226. 1971. [From Bird-Banding 43(4), 1972.] *WR 153: 80*

Smith, Dwight G., and Joseph R. Murphy. BREEDING ECOLOGY OF RAPTORS IN THE EASTERN GREAT BASIN OF UTAH. *Brigham Young Univ. Sci. Bull. Biol. Ser.* 18(3): 1-76, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 81*
[Southern Conn. State Coll., New Haven 06515] Twelve species including the ferruginous hawk, great horned owl, golden eagle, red-tailed hawk, raven, Cooper's hawks, and burrowing owls.

Sorensen, L. Halling. IDENTIFICATION DES RAPACES EN VOL: 2. [IDENTIFICATION OF BIRDS OF PREY IN FLIGHT: 2.] *Aves* 9(6): 201-225, illus. 1972. [From Biol. Abstr. 57(8), 1974. In French.] *WR 153: 81*
[Tyge Krabbe Vej. 11, DK-2300 Copenhagen, Denmark] *"Aquila chrysaetos, A. clanga, A. pomarina, A. heliaca,* and *A. rapax orientalis."*

Steyn, P. COURTSHIP FLIGHT OF THE CHANTING GOSHAWK, *MELIERAX MUSICUS. Ostrich* 44. p. 85. 1973. [From Auk 91(2), 1974.] *WR 153: 81*

Steyn, Peter, and Josephine Scott. NOTES ON THE BREEDING BIOLOGY OF THE WOOD OWL. *Ostrich* 44(2): 118-125, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 81*
[P.O. Box 9199, Balawayo, Rhodesia] *"Ciccaba woodfordii."*

Susic, Veselinka T., and Ruzica M. Kovacevic. SLEEP PATTERNS IN THE OWL *STRIX ALUCO. Physiol. Behav.* 11(3): 313-317, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 81*
[Univ. Belgrade, Belgrade, Yugoslavia]

Thiede, Walther, and Ulrike Thiede. ZUR BIOLOGIE DES TURMFALKEN *(FALCO TINNUNCULUS)* IN NEPAL. [ON THE BIOLOGY OF THE KESTREL *(FALCO TINNUNCULUS)* IN NEPAL.] *Bonn. Zool. Beitr.* 24(3): 285-290. 1973. [From Biol. Abstr. 57(9), 1974. In German.] *WR 153: 81*
[Holunderweg 21, D 2 Hamburg 61, West Germany]

Ueoka, Meyer L., and James R. Koplin. FORAGING BEHAVIOR OF OSPREYS IN NORTHWESTERN CALIFORNIA. *Raptor Res.* 7(2): 32-38, 3 figs. Summer 1973. *WR 153: 81*
[Calif. State Univ., Humboldt, Arcata 95521] *"Pandion haliaetus."*

Van Dijk, T. A COMPARATIVE STUDY OF HEARING IN OWLS OF THE FAMILY STRIGIDAE. *Neth. J. Zool.* 23(2): 131-167, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 81*
[Free Univ., Amsterdam, Netherlands] *"Strix aluco* and *Asio otus."*

Weber, Bruno. BEITRAG ZUR KENNTNIS DER ERNAEHRUNG DER EULEN IN DER MAGDEBURGER BOERDE, IM GEBIET ZWISCHEN OHRE UND OBERER ALLER UND IN DER ALTMARK. [CONTRIBUTION TO THE KNOWLEDGE OF THE NUTRITION OF OWLS ON THE FERTILE PLAIN OF MAGDEBURG, IN THE REGION BETWEEN OHRE AND UPPER ALLER AND IN ALTMARK.] *Beitr. Vogelkd.* 19(5): 363-375. 1973. [From Biol. Abstr. 57(11), 1974. In German.] *WR 153: 81*
[Kreismus., Holdensleben 324, East Germany] *"Tyto alba, Asio otus, Athene noctua,* and *Strix aluco."*

Wetmore, Alexander. THE EGG OF A COLLARED FOREST-FALCON. *Condor* 76(1): 103. Spring 1974. *WR 153: 81*
[Smithsonian Inst., Washington, D.C. 20560] A captive collared forest-falcon *(Micrastur semitorquatus naso)* laid two eggs (of interest because there is no authentic published record of the eggs of this species).--Courtesy/ Paul A. Stewart.

Williams, G. R., and M. Harrison. THE LAUGHING OWL *SCELOGLAUX ALBIFACIES. Notornis* 19. p. 4-19. 1972. [From Bird-Banding 43(4), 1972.] *WR 153: 81*

woods. THE SWALLOW-TAILED KITE RETURNS TO KANSAS. *Kans. Ornithol. Soc. Bull.* 23. p. 17-18. 1972. [From Auk 91(2), 1974.] *WR 153: 82*
[615 West 17th St., Topeka, Kans. 66612] *"Elanoides forficatus."*

Wylie, Stephen R. NOTES ON EGG-LAYING IN THE MONKEY-EATING EAGLE. *Auk* 91 (1): 191. Jan. 1974. *WR 153: 82*
[Philadelphia Zool. Garden, Philadelphia, Pa. 19104] Egg laying by captive monkey-eating eagles *(Pithecophaga jefferyi)* is reported.--Courtesy/ Paul A. Stewart.

BLACKBIRDS, STARLINGS, CROWS

Bernstein, M., S. Thomas, and K. Schmidt-Neilsen. POWER INPUT DURING FLIGHT OF THE FISH CROW, *CORVUS OSSIFRAGUS*. *J. Exp. Biol.* 58(2): 401-410. 1973. [From Bird-Banding 45(2), 1974.] *WR 153: 82*

Bray, Olin E., Willis C. Royall, Jr., Joseph L. Guarino, and John W. De Grazio. MIGRATION AND SEASONAL DISTRIBUTION OF COMMON GRACKLES BANDED IN NORTH AND SOUTH DAKOTA. *Bird-Banding* 44(1): 1-12, 3 figs. Winter 1973. *WR 153: 82*
[Wildl. Res. Cent., Bldg. 16, Federal Center, Denver, Colo. 80225] *"Quiscalus quiscula."*--Courtesy/ Paul A. Stewart.

Burtt, Harold E., and Maurice L. Giltz. BEHAVIOR OF SOME ICTERIDS AND STARLINGS WHEN RELEASED AFTER BANDING. *Bird-Banding* 45(1): 33-45, 2 figs. Winter 1974. *WR 153: 82*
[Ohio State Univ., Columbus 48201] Flight behavior of *Quiscalus quiscula Agelaius phoniceus, Molothrus ater,* and *Sturnus vulgaris.*--Courtesy/ Paul A. Stewart.

Chisholm, A. CONCERNING BIRDS THAT STORE FOOD. *Victorian Nat.* 89(1): 20. 1972. [From Bird-Banding 44(1), 1973.] *WR 153: 82*
"Corvus coronoides."

Coldwell, Cyril. RAVEN BANDING IN NOVA SCOTIA. *Bird-Banding* 43(4): 288. Oct. 1972. *WR 153: 82*
[Wolfville, R.R.3, Kings Co., Nova Scotia, Canada] Common ravens *(Corvus corax)* are sedentary in Nova Scotia and remain together as pairs throughout the year.--Courtesy/ Paul A. Stewart.

DeHaven, R. W., and J. A. Neff. RECOVERIES AND RETURNS OF TRICOLORED BLACKBIRDS, 1941-1964. *Western Bird Bander* 48. p. 10-11. 1973. [From Auk 91(2), 1974.] *WR 153: 82*
Populations of *Agelaius tricolor* in coastal California tend to remain separate from those in the Central Valley. Age record of 13 years.

DeHaven, Richard W., Frederick T. Crase, and Michael R. Miller. AGING TRI-COLORED BLACKBIRDS BY CRANIAL OSSIFICATION. *Bird-Banding* 45(2): 156-159, 1 fig. Spring 1974. *WR 153: 82*
[U.S. Bureau Sport Fish. & Wildl., Box C, Davis, Calif. 95616] *"Agelaius tricolor."*--Courtesy/ Paul A. Stewart.

Dojchev, R. L. [BIOMETRICAL INVESTIGATIONS OF THE SEXUAL DIMORPHISM AND SEASONAL VARIATION OF THE STARLING *(STURNUS VULGARIS* L.) IN THE SOFIA REGION DURING THE NONBREEDING PERIOD.] *God. Sofii. Univ. Biol. Fak. Kn. 1 Zool. Fiziol. Biokhim. Zhivotn.* 65. p. 1-10. 1970/1971. [From Biol. Abstr. 57(9), 1974. In Bulgarian with English summ.] *WR 153: 82*
[Univ. Sofia, Sofia, Bulgaria]

Dojchev, R. L. [A STUDY ON THE MIGRATION OF THE STARLING *(STURNUS VULGARIS* L.) IN BULGARIA.] *God. Sofii. Univ. Biol. Fak. Kn. 1 Zool. Fiziol. Biokhim. Zhivotn.* 65. p. 11-21, illus. 1970/1971. [From Biol. Abstr. 57(9), 1974. In Bulgarian with English summ.] *WR 153: 82*
[Univ. Sofia, Sofia, Bulgaria]

Dorka, Volker. ZUR FUNKTION DER NACKTGESICHTIGKEIT BEI DER SAATKRAEHE *(CORVUS FRUGILEGUS FRUGILEGUS).* [REGARDING THE FUNCTION OF BAREFACEDNESS OF THE ROOK *(CORVUS FRUGILEGUS FRUGILEGUS).*] *Anz. Ornithol. Ges. Bayern* 12(2): 114-121, illus. 1973. [From Biol. Abstr. 57(7), 1974. In German with English summ.] *WR 153: 83*
[Univ. TUbingen, TUbingen, West Germany]

Forbes, James E. FIELD USE OF 4-AMINOPYRIDINE TO PROTECT CORN FROM BLACKBIRDS IN NEW YORK. *N.Y. Fish Game J.* 21(1): 78-83, 1 fig. Jan. 1974. *WR 153: 83*
[P.O. Box 150, Albany, N.Y. 12201] Abstract: The first field use of 4-aminopyridine to prevent blackbird damage to field corn in New York was conducted under the supervision of the U.S. Fish and Wildlife Service in 1972. When the treatment was made at the proper time, damage did not occur in fields that were free of weeds and grass. There was no evidence that any non-target bird species was affected, and mortality among target species was negligable. Live-bird surveys revealed that few non-target birds are found in New York corn fields until the corn has been picked or chopped for silage.

Gambs, Roger Duane. DESCRIPTION AND EXPERIMENTAL ANALYSIS OF MOBBING BEHAVIOR IN CAPTIVE BLACK-BILLED MAGPIES *(PICA PICA). Ph.D. thesis, Univ. Mont.* 216 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 83*

Genung, William G., and Victor E. Green, Jr. FOOD HABITS OF THE MEADOWLARK IN THE EVERGLADES IN RELATION TO AGRICULTURE. *Environ. Entomol.* 3(1): 39-42. 1974. [From Biol. Abstr. 57(11), 1974.] *WR 153: 83*
[Agric. Res. & Educ. Cent., Belle Glade, Fla.] *"Sturnella magna argutulla."*

Hamel, Paul B. AGE AND SEX DETERMINATION OF NESTLING COMMON GRACKLES. *Bird-Banding* 45(1): 16-23, 1 fig. Winter 1974. *WR 153: 83*
[Clemson Univ., Clemson, S.C. 29631] Courtesy/ Paul A. Stewart.

Hardy, John William. AGE AND SEX DIFFERENCES IN THE BLACK-AND-BLUE JAYS OF MIDDLE AMERICA. *Bird-Banding* 44(2): 81-90, 4 figs. Spring 1973. *WR 153: 83*
[Univ. Fla., Gainesville 32611] Considers 4 spp. of *Cyanocorax.*--Courtesy/ Paul A. Stewart.

Hardy, John William. JAYS AS ARMY ANT FOLLOWERS. *Condor* 76(1): 102-103, 1 fig. Spring 1974. *WR 153: 83*
[Univ. Fla., Gainesville 32611] Involves 3 spp. of the genus *Cyanocorax.*--Courtesy/ Paul A. Stewart.

Holcomb, Larry C. THE QUESTION OF POSSIBLE SURPLUS FEMALES IN BREEDING RED-WINGED BLACKBIRDS. *Wilson Bull.* 86(2): 177-179. June 1974. *WR 153: 83*
[Creighton Univ., Omaha, Nebr. 68178] "I suggest that most female red-winged blackbirds breed every year, with no notable surplus existing as non-breeding birds in a breeding population."--Courtesy/ Paul A. Stewart.

Kerlan, Joel T., and Robert B. Jaffe. PLASMA TESTOSTERONE LEVELS DURING THE TESTICULAR CYCLE OF THE REDWINGED BLACKBIRD *(AGELAIUS PHOENICEUS). Gen. Comp. Endocrinol.* 22(4): 428-432. Apr. 1974. *WR 153: 83*
[Univ. Mich., Ann Arbor 48104]

Krivitskii, I. A. [NESTING OF CORVIDAE IN STEPPES.] *Vestn. Zool.* 7(4): 25-29, illus. 1973. [From Biol. Abstr. 57(10), 1974. In Russian with English summ.] *WR 153: 83*
[Khark. Pedagog. Inst., Kharkov, USSR] *"Corvus cornix* and *C. frugilegus."*

Mishaga, Richard. NOTES ON ASYNCHRONOUS HATCHING AND NESTLING MORTALITY IN WHITE-NECKED RAVENS. *Wilson Bull.* 86(2): 174-176. June 1974. *WR 153: 83*
[Stone & Webster Engineering Corp., Environmental Engineering Division, Boston, Mass. 02107] *"Corvus cryptoleucus."*--Courtesy/ Paul A. Stewart.

Petrovic, Clive A., and Mildred Miskimen. RED-WINGED BLACKBIRD IMPALED BY PLANT STEM. *Bird-Banding* 43(4): 285-287, 1 fig. Oct. 1972. *WR 153: 84*
[724 Camilo Ave., Coral Gables, Fla. 33134] Courtesy/ Paul A. Stewart.

Rising, James D. MORPHOLOGICAL VARIATION AND STATUS OF THE ORIOLES, *ICTERUS GALBULA, I. BULLOCKII,* AND *I. ABEILLEI,* IN THE NORTHERN GREAT PLAINS AND IN DURANGO, MEXICO. *Can. J. Zool.* 51(12): 1267-1273, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 84*
[Univ. Toronto, Toronto, Ontario, M5S 1A1, Canada]

Stevenson, Henry M. MIGRATION OF THE BLUE JAY IN THE SOUTHEASTERN UNITED STATES. *Fla. Field Nat.* 1(1): 9-13. Spring 1973. *WR 153: 84*
[Fla. State Univ., Tallahassee 32306] *"Cyanocitta cristata."*

Stone, Charles Porter. PHENETIC VARIATION OF BREEDING RED-WINGED BLACKBIRDS IN OHIO. *Ph.D. thesis, Ohio State Univ.* 301 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 84*
"Agelaius phoeneceus."

Tast, Johan, and Pertti Rassi. ROOSTS AND ROOSTING FLIGHTS OF WINTERING JACKDAWS *(CORVUS MONEDULA)* AT TAMPERE, FINLAND. *Ornis Fenn.* 50(1): 29-45, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 84*
[Korvenk. 44, SF-33300 Tampere 30, Finland]

Temple, Stanley A. PLASMA TESTOSTERONE TITERS DURING THE ANNUAL REPRODUCTIVE CYCLE OF STARLINGS *(STURNUS VULGARIS). Gen. Comp. Endocrinol.* 22(4): 470-479, 7 figs. Apr. 1974. *WR 153: 84*
[Cornell Univ., Ithaca, N.Y. 14850]

Verbeek, N. A. M. COMPARISON OF DISPLAYS OF THE YELLOW-BILLED MAGPIE *(PICA NUTTALI)* AND OTHER CORVIDS. *J. Ornithol.* 113. p. 297-314. 1972. [From Auk 91 (2), 1974.] *WR 153: 84*

OTHER BIRDS

Arheimer, O. [BREEDING BIOLOGY OF THE REDWING *TURDUS ILIACUS* IN SUB-ALPINE BIRCH FOREST, AMMARNÄS, SWEDISH LAPLAND.] *Vår Fågelvärld* 32. p. 1-10. 1973. [From Auk 91(1), 1974. In Swedish with English summ.] *WR 153: 84*

Borrero, H. J. I. SOBRE LA HISTORIA NATURAL DE LA VIUDITA, *FLUVICOLA PICA* (BODDAERT) (TYRANNIDAE). [ON THE NATURAL HISTORY OF THE PIED WATERTYRANT, *FLUVICOLA PICA* (BODDAERT) (TYRANNIDAE).] *Ardeola* 19. p. 69-87. 1973. [From Auk 91(1), 1974. In Spanish with English summ.] *WR 153: 84*

Brooke, R. K. DISTRIBUTIONAL AND BIOLOGICAL NOTES ON THE MOTTLED SWIFT IN RHODESIA. *Ostrich* 44(2): 106-110. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 84*
[Durban Mus., Durban, South Africa] *"Tachymarptis aequatorialis."*

Chappuis, C., H. Heim de Balsac, and J. Vielliard. DISTRIBUTION, REPRODUCTION, MANIFESTATIONS VOCALES ET AFFINITES DU BRUANT CENDRE *EMBERIZA CINERACEA.* [DISTRIBUTION, REPRODUCTION, VOCAL MANIFESTATIONS AND AFFINITIES OF THE CINEREOUS BUNTING *EMBERIZA CINERACEA.*] *Bonn. Zool. Beitr.* 24(3): 302-316, illus. 1973. [From Biol. Abstr. 57(9), 1974. In French with German summ.] *WR 153: 84*
[Ec. Norm. Super., 46 rue d'Ulm, 75 Paris 5, France]

Dau, Christian P., and Daniel D. Gibson. COMMON ROSE FINCH, A FIRST RECORD FOR NORTH AMERICA. *Auk* 91(1): 185-186. Jan. 1974. *WR 153: 84*
[Univ. Alaska, Fairbanks 99701] *"Carpodacus erythrinus."*--Courtesy/ Paul A. Stewart.

Dawson, P. A YELLOW SCALY-BREASTED LORIKEET. *Sunbird* 4. p. 9-10. 1973. [From Auk 91(2), 1974.] *WR 153: 85*
"Trichoglossus chlorolepidotus."

Douthwaite, R. J. PIED KINGFISHER *CERYLE RUDIS* POPULATIONS. *Ostrich* 44(2): 89-94, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 85*
[Univ. Zambia, Lusaka, Zambia]

Erdmann, Guenter. VORKOMMEN DES GRAUSPECHTS *(PICUS CANUS)* IN DER LEIPZIGER GEGEND. [ON THE OCCURRENCE OF THE GREY-HEADED WOODPECKER *(PICUS CANUS)* IN THE LEIPZIG REGION.] *Beitr. Vogelkd.* 19(5): 329-341, illus. 1973. [From Biol. Abstr. 57(11), 1974. In German.] *WR 153: 85*
[Fichtest. 52, Leipzig, East Germany]

Goerner, Martin. UEBER DAS VORKOMMEN UND DEN BESTAND DES EISVOGELS, *ALCEDO ATTHIS* L., IN THUERINGEN. [ON THE OCCURRENCE AND THE POPULATION OF THE KINGFISHER *ALCEDO ATTHIS* L., IN THURINGIA.] *Beitr. Vogelkd.* 19(5): 376-389, illus. 1973. [From Biol. Abstr. 57(11), 1974. In German.] *WR 153: 85*
[Thymianweg 25, Jena 69, East Germany]

Harmeson, Janet P. BREEDING ECOLOGY OF THE DICKCISSEL. *Auk* 91(2): 348-359. Apr. 1974. *WR 153: 85*
[63 James St. West, Guelph, Ontario N1G 1E5, Canada] *"Spiza americana."*--Courtesy/ Paul A. Stewart.

Haverschmidt, F. WAARNEMINGEN AAN EEN POPULATIE BONTE VLIEGENVANGERS *FICEDULA HYPOLEUCA*. [OBSERVATIONS ON A POPULATION OF PIED FLYCATCHERS *(FICEDULA HYPOLEUCA).*] *Limosa* 46(1/2): 1-20, illus. 1973. [From Biol. Abstr. 57(9), 1974. In Dutch with English summ.] *WR 153: 85*
[Wolfskuilst. 16, Ommen, Netherlands]

Hudson, F. SPINE-TAILED SWIFTS OVER KAIPARA FLATS. *Notornis* 15(1): 42. 1968. [From Bird-Banding 45(1), 1974.] *WR 153: 85*
"Chaetura caudacuta."

Kazakov, B. A. [TAXONOMIC STATUS AND GEOGRAPHIC VARIABILITY OF *SYLVIA MYSTACEA* MENETR.] *Vestn. Zool.* 7(2): 66-69, illus. 1973. [From Biol. Abstr. 57(11), 1974. In Russian with English summ.] *WR 153: 85*
[Rostov State Univ., Rostov-on-Don, USSR]

Kibbe, Douglas P., and Noel J. Cutright. THE MONK PARAKEET: TO BAND OR BAN? *Inland Bird Banding News* 46(2): 45-52. Mar.-Apr. 1974. *WR 153: 85*
[Cornell Univ., Ithaca, N.Y. 14850] *"Myiopsitta monachus."*--Courtesy/ Paul A. Stewart.

Langner, S. ZUR BIOLOGIE DES HOCHLANDKOLIBRIS, *OREOTROCHILUS ESTELLA*, IN DEN ANDEN BOLIVIENS. [THE BIOLOGY OF THE HIGH MONTANE HUMMINGBIRD IN THE BOLIVIAN ANDES.] *Bonn. Zool. Beitr.* 24(1/2): 24-47. 1973. [From Bird-Banding 45(1), 1974. In German with English summ.] *WR 153: 85*

Lawson, C. S. FIRST NEVADA RECORD OF CHESTNUT-COLLARED LONGSPUR. *Auk* 91(2): 432. Apr. 1974. *WR 153: 85*
[509 Altamira Rd., Las Vegas, Nev. 89128] *"Calcarius ornatus."*--Courtesy/ Paul A. Stewart.

Lefranc, Norbert. NOTES SUR LA HISTOIRE RECENTE DE LA PIE-GRIECHE ECORCHEUR *LANIUS COLLURIO* EN EUROPE OCCIDENTALE. [NOTES ON THE RECENT HISTORY OF THE RED-BACKED SHRIKE *LANIUS COLLURIO* IN WESTERN EUROPE.] *Alauda* 41(3): 239-252, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French with English summ.] *WR 153: 85*
[R. P. C. 80, 88210 Senones, France]

Lewis, T. J., D. G. Ainley, D. Greenberg, and R. Greenberg. A GOLDEN-CHEEKED WARBLER ON THE FARALLON ISLANDS. *Auk* 91(2): 411-412. Apr. 1974. *WR 153: 86*
[Point Reyes Bird Observatory, Box 321, Bolinas, Calif. 94924] *"Dendroica chrysoparia."*--Courtesy/ Paul A. Stewart.

Mathiasson, S. UNTERSUCHUNGEN AN KLAPPER-GRASMÜCKEN *(SYLVIA CURRUCA)* IM NILTAL IN SUDAN. [INVESTIGATIONS OF LESSER WHITETHROAT *(SYLVIA CURRUCA)* IN THE NILE VALLEY IN SUDAN.] *Vogelwarte* 26. p. 212-221. 1971. [From Auk 91(2), 1974. In German with English summ.] *WR 153: 86*

Novy, Frank O., and Albert D. McGrew. ORANGE-BREASTED BUNTING IN SOUTHERN TEXAS. *Auk* 91(1): 178-179. Jan. 1974. *WR 153: 86*
[Saginaw, Mich. 48601] *"Passerina leclancherii."*--Courtesy/ Paul A. Stewart.

Peckover, W. S. THE FAWN-BREASTED BOWERBIRD *(CHLAMYDERA CERVINIVENTRIS)*. *Proc. Papua & New Guinea Sci. Soc.* 21. p. 23-35. 1969. [From Bird-Banding 43(4), 1972.] *WR 153: 86*

Shields, William M., Thomas C. Grubb, Jr., and Anthony Telis. USE OF NATIVE PLANTS BY MONK PARAKEETS IN NEW JERSEY. *Wilson Bull.* 86(2): 172-173. June 1974. *WR 153: 86*
[Rutgers Univ., New Brunswick, N.J. 08903] "From our limited data, it seems likely that the monk parakeet *(Myiopsitta monachus)* deserves its current status as potential pest."--Courtesy/ Paul A. Stewart.

Simeonov, Simeon D. [THE MOUNTAIN LINNET, *CARDUELIS FLAVIROSTRIS* L., A NEW SPECIES FOR THE BULGARIAN ORNITHOFAUNA.] *God. Sofii Univ. Biol. Fak. Kn. I Zool. Fiziol. Biokhim. Zhivotn.* 65. p. 101-102. 1970/1971. [From Biol. Abstr. 57(9), 1974. In Bulgarian with German summ.] *WR 153: 86*
[Univ. Sofia, Sofia, Bulgaria]

Simeonov, S., and R. Dojchev. [STUDIES IN THE TAXONOMY OF YELLOWHAMMER *(EMBERIZA CITRINELLA* L.*)* IN BULGARIA.] *God. Sofii Univ. Biol. Fak. Kn. I Zool. Fiziol. Biokhim. Zhivotn.* 65. p. 163-171. 1970/1971. [From Biol. Abstr. 57(9), 1974. In Bulgarian with English summ.] *WR 153: 86*
[Univ. Sofia, Sofia, Bulgaria]

Simpson, Marcus B., Jr., and Robert C. Ruiz. MONK PARAKEETS BREEDING IN BUNCOMBE COUNTY, NORTH CAROLINA. *Wilson Bull.* 86(2): 171-172. June 1974. *WR 153: 86*
[Yale Univ. School of Medicine, 310 Cedar St., New Haven, Conn. 06510] *"Myiopsitta monachus."*--Courtesy/ Paul A. Stewart.

Snow, D. W. THE CLASSIFICATION OF THE COTINGIDAE (AVES). *Breviora* 409. p. 1-27. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 86*

Snow, David W., and Derek Goodwin. THE BLACK-AND-GOLD COTINGA. *Auk* 91(2): 360-369, 1 fig. Apr. 1974. *WR 153: 86*
[British Mus. Nat. Hist., Tring, Hertfordshire HP23 6AP, England] A description is given of *Tijuca atra*. There is also discussion of the bird's habitat, annual cycle, food, vocalization, daily activity, relationships between males, and visits by females.--Courtesy/ Paul A. Stewart.

Sutton, G. M. WINTER FOOD OF A CENTRAL OKLAHOMA ROADRUNNER. *Bull. Okla. Ornithol. Soc.* 5. p. 30. 1972. [From Auk 91(2), 1974.] *WR 153: 86*

Watson, George E., J. Phillip Angle, and M. Ralph Browning. FIRST NORTH AMERICAN RECORD OF LITTLE BUNTING IN EASTERN CHUKCHI SEA. *Auk* 91(2): 417. Apr. 1974. *WR 153: 86*
[Smithsonian Inst., Washington, D.C. 20560] *"Emberiza pusilla."*--Courtesy/ Paul A. Stewart.

OTHER BIRDS--Continued

Weske, John S. WHITE-WINGED JUNCO IN TEXAS. *Condor* 76(1): 119. Spring 1974. *WR 153: 87*
[Natl. Mus. Nat. Hist., Washington, D.C. 20560] *"Junco hyemalis aikeni."* --Courtesy/ Paul A. Stewart.

Weske, John S., and John W. Terborgh. *HEMISPINGUS PARODII*, A NEW SPECIES OF TANAGER FROM PERU. *Wilson Bull.* 86(2): 97-103, 1 pl. June 1974. *WR 153: 87*
[Natl. Mus. Nat. Hist., Washington, D.C. 20560] Courtesy/ Paul A. Stewart.

Winterbottom, J. M. NOTES ON THE ECOLOGY OF *SERINUS* SPP. IN THE WESTERN CAPE. *Ostrich* 44. p. 31-33. 1973. [From Auk 91(2), 1974.] *WR 153: 87*

REPTILES & AMPHIBIANS--GENERAL

Grogan, William L., Jr. NOTES ON *LAMPROPELTIS CALLIGASTER RHOMBOMACULATA* AND *RANA VIRGATIPES*. *Bull. Md. Herpetol. Soc.* 10(1): 33-34. Mar. 1974. *WR 153: 87*
[Univ. Md., College Park 20742]

Pooley, A. C., Elsa Pooley, Wayne F. Hadley, and Carl Gans. ECOLOGICAL ASPECTS OF THE DISTRIBUTION OF SUBSOIL HERPETOFAUNA IN NDUMU GAME RESERVE. *Ann. Carnegie Mus.* 44(8): 103-116, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 87*
[Ndumu Game Reserve, Zululand, South Africa]

Powers, Arnold. CHRONOLOGICAL HERPETOLOGICAL BIBLIOGRAPHY OF LAURENCE MONROE KLAUBER FROM 1924 TO 1972. *Bull. Md. Herpetol. Soc.* 10(1): 23-29. Mar. 1974. *WR 153: 87*
[Univ. Colo., Boulder 80302] Bibliography of 113 items.

Rahn, H., and W. F. Garey. ARTERIAL CO_2, O_2, pH, AND HCO_3-VALUES OF ECTOTHERMS LIVING IN THE AMAZON. *Am. J. Physiol.* 225(3): 735-738. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 87*
[State Univ. N.Y., Buffalo 14214] *"Bufo marinus, podocnemys expansa, Testudo tabulata,* and *Constrictor constrictor."*

Schuler, John P., James W. Dickson, and Michael J. Harvey. HERPETOFAUNA OF SYLAMORE RANGER DISTRICT OZARK NATIONAL FOREST, ARKANSAS: PRELIMINARY REPORT. *Proc. Ark. Acad. Sci.* 26. p. 61-66. 1972. *WR 153: 87*
[Memphis State Univ., Memphis, Tenn. 38152] Annotated list of 49 spp.

Stevens, R. Andrew. AN ANNOTATED CHECK LIST OF THE AMPHIBIANS AND REPTILES KNOWN TO OCCUR IN SOUTH-EASTERN MALAWI. *Arnoldia* 6(30): 1-22, 1 fig. 26 Mar. 1974. *WR 153: 87*
[3 Crest Hill, Buckfastleigh, Devon, TQ 11 OAN, England] This list of 56 anurans, 1 caecilian, 5 terrapins and tortoises, 1 crocodile, 44 lizards, 1 amphisbaenid and 51 snakes recorded from within the region underlines the richness of the herpetofauna of south-eastern Malawi.--From summ.

REPTILES

Arndt, Rudolf G., and Wayne A. Potter. A POPULATION OF THE MAP TURTLE, *GRAPTEMYS GEOGRAPHICA*, IN THE DELAWARE RIVER, PENNSYLVANIA. *J. Herpetol.* 7(4): 375-377. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 87*
[Ichthyol. Assoc., 100 S. Cass St., Middletown, Del. 19709]

Bennett, Albert F. BLOOD PHYSIOLOGY AND OXYGEN TRANSPORT DURING ACTIVITY IN TWO LIZARDS, *VARANUS GOULDII* AND *SAUROMALUS HISPIDUS*. *Comp. Biochem. Physiol. A Comp. Physiol.* 46(4): 673-690, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 88*
[Univ. Calif., Berkeley 94720]

Bourque, Joseph Edwin. STUDIES ON THE POPULATION DYNAMICS OF HELMINTH PARASITES IN THE YELLOW-BELLIED TURTLE, *PSEUDEMYS SCRIPTA SCRIPTA*. *Ph.D. thesis, Wake Forest Univ.* 120 p. 1974. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974.] *WR 153: 88*

Bramble, Dennis M. OCCURRENCE AND SIGNIFICANCE OF THE OS TRANSILIENS IN GOPHER TORTOISES. *Copeia* 1974(1): 102-109, 4 figs. 28 Mar. 1974. *WR 153: 88*
[Univ. Ill., Chicago 60680] *"Gopherus spp."*

Burghardt, Gordon M., Hardy C. Wilcoxon, and James A. Czaplicki. CONDITIONING IN GARTER SNAKES, AVERSION TO PALATABLE PREY INDUCED BY DELAYED ILLNESS. *Anim. Learn. Behav.* 1(4): 317-320, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 88*
[Univ. Tenn., Knoxville 37916]

Campbell, Howard W. OBSERVATIONS ON THE ACOUSTIC BEHAVIOR OF CROCODILIANS. *Zoologica* (N.Y.) 58(1): 1-11, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 88*
[9905 Renfrew Road, Silver Spring, Md.]

Campbell, Howard W. TURTLES AT THE BRINK: OUR ENDANGERED SPECIES. *Bull. Md. Herpetol. Soc.* 10(1): 1-7, 7 figs. Mar. 1974. *WR 153: 88*
[9905 Renfrew Road, Silver Spring, Md.]

Campbell, Kenneth E., Jr. HABITAT NOTES ON *PALEOSCUHUS TRIGONATUS* (SCHNEIDER) IN PERU. *J. Herpetol.* 7(3): 318-320, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 88*
[Univ. Fla., Gainesville 32601]

Cei, J. M. TWO NEW SPECIES OF *CTENOBLEPHARIS* (REPTILIA, IGUANIDAE) FROM THE ARID ENVIRONMENTS OF THE CENTRAL ARGENTINA (MENDOZA PROVINCE). *J. Herpetol.* 8(1): 71-75, 4 figs. Jan. 1974. *WR 153: 88*
[Univ. Nacional de Cuyo, Mendoza, Argentina]

Clark, D. R., Jr. TEMPERATURE RESPONSES OF THREE COSTA RICAN LIZARDS *(ANOLIS)*. *Carib. J. Sci.* (3-4): 199-204, 2 figs. Dec. 1973. *WR 153: 88*
[Patuxent Wildl. Res. Cent., Laurel, Md. 20811]

Coulson, Thomas D., Roland A. Coulson, and Thomas Hernandez. SOME OBSERVATIONS ON THE GROWTH OF CAPTIVE ALLIGATORS. *Zoologica* 58(2): 47-52, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 88*
[La. State Univ. Med. Cent., New Orleans, La. 70112]

Crews, David. BEHAVIORAL CORRELATES TO GONADAL STATE IN THE LIZARD, *ANOLIS CAROLINENSIS*. *Horm. Behav.* 4(4): 307-313, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 88*
[Univ. Calif., Berkeley 94720]

Czaplicki, J. A., and R. H. Porter. VISUAL CUES MEDIATING THE SELECTION OF GOLDFISH *(CARASSIUS AURATUS)* BY TWO SPECIES OF *NATRIX*. *J. Herpetol.* 8(2): 129-134. Apr. 1974. *WR 153: 88*
[George Peabody Coll. for Teachers, Nashville, Tenn. 37203]

Davis, W. K. THE MEDITERRANEAN GECKO, *HEMIDACTYLUS TURCICUS* IN TEXAS. *J. Herpetol.* 8(1): 77-80, 2 figs. Jan. 1974. *WR 153: 89*
[Southwest Tex. State Univ., San Marcos, Tex. 78666]

DeLangdada, Francisco Garcia. CICLO SEXUAL BIENAL DE SERPENTES *CROTALUS* DO BRASIL: COMPROVACAO. [BIENNIAL SEXUAL CYCLE OF *CROTALUS* SNAKES OF BRAZIL: CONFIRMATION.] *Mem. Inst. Butantan* (São Paulo) 36: 67-72. 1972. [From Biol. Abstr. 57(8), 1974. In Portuguese with English summ.] *WR 153: 89*
[C. P. 65, São Paulo, Brazil]

Domergue, Charles A. ETUDE DE TROIS SERPENTS MALGACHES: *LIOPHOLIDOPHIS LATERALIS* (D. AND B.), *L. STUMPFFI* (BOETTGER) ET *L. THIELI* N. SP. [STUDY OF THREE SNAKES FROM MADAGASCAR: *LIOPHOLIDOPHIS LATERALIS* (D. AND B.), *L. STUMPFFI* (BOETTGER) AND *L. THIELI* N. SP.] *Bull. Mus. Natl. Hist. Nat. Zool.* 77. p. 1397-1412, illus. 1972. [From Biol. Abstr. 57(9), 1974. In French.] *WR 153: 89*
[Inst. Pasteur Madagascar, B.P. 1274, Tananarive, Malagasy Republic]

Duda, P. L. ARTERIAL SYSTEM IN AGAMIDAE WITH SPECIAL REFERENCE TO THE SYSTEM IN *AGAMA TUBERCULATA* GRAY (REPTILIA: LACERTILIA). *J. Herpetol.* 8(1): 81-84, 2 figs. Jan. 1974. *WR 153: 89*
[Univ. Kashmir, Srinagar, India]

Dunson, William A. SALT GLAND SECRETION IN A MANGROVE MONITOR LIZARD. *Comp. Biochem. Physiol. A Comp. Physiol.* 47(4): 1245-1255, 5 figs. 1 Apr. 1974. *WR 153: 89*
[Pa. State Univ., University Park 16802] *"Varanus semiremax."*

Duvdevani, I., and A. Borut. OXYGEN CONSUMPTION AND EVAPORATIVE WATER LOSS IN FOUR SPECIES OF *ACANTHODACTYLUS* (LACERTIDAE). *Copeia* 1974(1): 155-164, 4 figs. 28 Mar. 1974. *WR 153: 89*
[Tel-Aviv Univ., Tel-Aviv, Israel]

Echternacht, Arthur C. THE COLOR PATTERN OF *SONORA MICHOACANENSIS* (DUGES) (SERPENTES, COLUBRIDAE) AND ITS BEARING ON THE ORIGIN OF THE SPECIES. *Breviora* 410. p. 1-18, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 89*

Ferray, L. LE COMPLEXE DIENCEPHALOHYPOPHYSAIRE DE LA COULEUVRE A COLLIER *(TROPIDONOTUS NATRIX):* I. ETAPES DU DEVELOPPEMENT. [THE DIENCEPHALOHYPOPHYSEAL COMPLEX OF THE COMMON GRASS SNAKE *(TROPIDONOTUS NATRIX):* I. STAGES OF DEVELOPMENT.] *Ann. Embryol. Morphog.* 6(2): 169-178, illus. 1973. [From Biol. Abstr. 57(9), 1974. In French with English summ.] *WR 153: 89*
[Lab. Zool. & Embryol. Exp., 12, rue de l'Universite, 67000 Strasbourg, France]

Fox, Stanley Forrest. NATURAL SELECTION IN THE LIZARD *UTA STANSBURIANA*. *Ph.D. thesis, Yale Univ.* 182 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(12), 1974.] *WR 153: 89*

Frankenberg, E. VOCALIZATION OF MALES OF THREE GEOGRAPHICAL FORMS OF *PTYODACTYLUS* FROM ISRAEL (REPTILIA: SAURIA: GEKKONINAE). *J. Herpetol.* 8(1): 59-70, 14 figs. Jan. 1974. *WR 153: 89*
[Hebrew Univ. of Jerusalem, Jerusalem, Israel]

Franz, Richard. PARASITES OF REPTILES: PART II. DIGENETIC TREMATODES INHABITING THE RESPIRATORY AND UPPER DIGESTIVE TRACTS OF SNAKES. *Bull. Md. Herpetol. Soc.* 10(1): 7-15, 2 figs. Mar. 1974. *WR 153: 89*
[Univ. Fla., Gainesville 32611]

Garrido, Orlando H. DISTRIBUCION Y VARIACION DE *ANOLIS HOMOLECHIS* COPE (LACERTILIA: IGUANIDAE) EN CUBA. [DISTRIBUTION AND VARIATION OF *ANOLIS HOMOLECHIS* COPE (LACERTILIA: IGUANIDAE) IN CUBA.] *Ser. Poeyana Inst. Zool. Acad. Cienc. Cuba* 120. p. 17-52. 1973. [From Biol. Abstr. 57(12), 1974. In Spanish with English summ.] *WR 153: 90*
[Acad. Cienc. Cuba, Havana, Cuba]

Goldberg, Stephen R. REPRODUCTION IN MOUNTAIN AND LOWLAND POPULATIONS OF THE LIZARD *SCELOPORUS OCCIDENTALIS*. *Copeia* 1974(1): 176-182, 4 figs. 28 Mar. 1974. *WR 153: 90*
[Whittier Coll., Whittier, Calif. 90608]

Golder, Friedrich. EINE UNGEWOEHNLICHE EIABLAGE DER BRAUNEN FARBVARIANTE VON *PHILODRYAS BARONI*, SOWIE DATEN UEBER EINE EIABLAGE VON *PHILODRYAS OLFERSII* (SERPENTES, COLUBRIDAE). [UNUSUAL EGG-LAYING IN THE BROWN VARIATION OF *PHILODRYAS BARONI*, AND DATA ON THE EGG-LAYING OF *PHILODRYAS OLFERSII* (SERPENTES, COLUBRIDAE).] *Salamandra* 9(1): 22-26, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 90*
[Kleine Bogenstr. 1, 6500 Mainz-Mombach, West Germany]

Gorman, George C., and Paul Licht. SEASONALITY IN OVARIAN CYCLES, AMONG TROPICAL *ANOLIS* LIZARDS. *Ecology* 55(2): 360-369, 7 figs. Early Spring 1974. *WR 153: 90*
[Univ. Calif., Los Angeles 90024] *"Anolis stratulus, A. evermanni, A. krugi, A. gundlachi, A. pulchellas,* and *A. cristatellus."*--Courtesy/ Paul A. Stewart.

Greenwald, O. E. THERMAL DEPENDENCE OF STRIKING AND PREY CAPTURE BY GOPHER SNAKES. *Copeia* 1974(1): 141-148, 4 figs. 28 Mar. 1974. *WR 153: 90*
[Ohio State Univ., Columbus 43210] *"Pituophis catenifer affinis."*

Groves, John D., and Peter S. Sachs. EGGS AND YOUNG OF THE SCARLET KING SNAKE, *LAMPROPELTIS TRIANGULUM ELAPSOIDES*. *J. Herpetol.* 7(4): 389-390. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 90*
[Philadelphia Zool. Gard., Philadelphia, Pa. 19104]

Hendricks, F. S. COLOR ANOMALY OF A *RHINOCHEILUS LECONTEI TESSELLATUS* GARMAN FROM NORTHEASTERN DURANGO, MEXICO. *J. Herpetol.* 8(2): 185. Apr. 1974. *WR 153: 90*
[Tex. A&M Univ., College Station 77843]

Hillis, David N. A NOTE ON CANNIBALISM IN CORN SNAKES, *ELAPHE GUTTATA GUTTATA*. *Bull. Md. Herpetol. Soc.* 10(1): 31-32. Mar. 1974. *WR 153: 90*
[510 W. Joppa Road, Towson, Md. 21204]

Hoge, A. R., and S. A. Romano. SINOPSE DAS SERPENTES PECONHENTAS DO BRASIL: SERPENTES, ELAPIDAE, E VIPERIDAE. [SYNOPSIS OF THE VENOMOUS SNAKES OF BRAZIL: SERPENTES, ELAPIDAE AND VIPERIDAE.] *Mem. Inst. Butantan* (São Paulo) 36: 109-208, illus. 1972. [From Biol. Abstr. 57(7), 1974. In Portuguese with English summ.] *WR 153: 90*
[C.P. 65, São Paulo, Brazil]

Hoge, Alphonse Richard, and Jose Santiago Limaverde. *LIOPHIS MOSSORENSIS* NOV. SP. DO BRASIL (SERPENTES, COLUBRIDAE). [*LIOPHIS MOSSOROENSIS* NOV. SP. OF BRAZIL (SERPENTES, COLUBRIDAE).] *Mem. Inst. Butantan* (São Paulo). 36: 215-220, illus. 1972. [From Biol. Abstr. 57(7), 1974. In Portuguese with English summ.] *WR 153: 90*
[C.P. 65, São Paulo, Brazil]

Hoge, Alphonse Richard, Newton Pereira Santos, Carmen Heitor, Lidio Anibal Lopez, and Irene Menezes De Souza. SERPENTES COLETADAS PELO PROJETO RONDON VII EM IAURETE, BRASIL. [SNAKES COLLECTED BY THE PROJECT RONDON VII IN IAURETE, BRAZIL.] *Mem. Inst. Butantan* (São Paulo). 36: 221-232. 1972. [From Biol. Abstr. 57(7), 1974. In Portuguese with English summ.] *WR 153: 91*
[C.P. 65, São Paulo, Brazil]

Huey, Raymond B. WINTER THERMAL ECOLOGY OF THE IGUANID LIZARD *TROPIDURUS PERUVIANUS*. *Copeia* 1974(1): 149-155, 1 fig. 28 Mar. 1974. *WR 153: 91*
[Harvard Univ., Cambridge, Mass. 02138]

Huey, Raymond B. BEHAVIORAL THERMOREGULATION IN LIZARDS: IMPORTANCE OF ASSOCIATED COSTS. *Science* 184(4140): 1001-1003, 2 figs. 31 May 1974. *WR 153: 91*
[Harvard Univ., Cambridge, Mass. 02138] Abstract: The Puerto Rican lizard *Anolis cristatellus* behaviorally regulates body temperature in an open habitat but passively tolerates lower and more variable temperatures in an adjacent forest where basking sites are few and distant. Thermoregulation may be adaptive only when costs resulting from associated losses of time and energy are low.

Huey, Raymond B., Eric R. Pianka, Michael E. Egan, and Larry W. Coons. ECOLOGICAL SHIFTS IN SYMPATRY: KALAHARI FOSSORIAL LIZARDS *(TYPHLOSAURUS)*. *Ecology* 55(2): 304-316, 6 figs. Early Spring 1974. *WR 153: 91*
[Harvard Univ., Cambridge, Mass. 02138] *"Typhlosaurus gariepensis* and *T. lineatus."*--Courtesy/ Paul A. Stewart.

Iordanskii, N. N. [MORPHOLOGICAL AND FUNCTIONAL CHARACTERISTICS OF THE JAW APPARATUS AND CRANIAL KINETISM IN CHAMELEONS.] *Zool. Zh.* 52(6): 891-901, illus. 1973. [From Biol. Abstr. 57(7), 1974. In Russian with English summ.] *WR 153: 91*
[2nd Moscow Med. Inst., Moscow, USSR]

Jackson, James F. NOTES ON THE POPULATION BIOLOGY ON *ANOLIS TROPIDONOTUS* IN A HONDURAN HIGHLAND PINE FOREST. *J. Herpetol.* 7(3): 309-311, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 91*
[Univ. Fla., Gainesville 32601]

Jones, Richard E., Nadine B. Sedgley, Althea M. Gerrard, and Jan J. Roth. ENDOCRINE CONTROL OF CLUTCH SIZE IN REPTILES III. Δ^5-3β-HYDROXYSTEROID DEHYDROGENASE ACTIVITY IN DIFFERENT-SIZED OVARIAN FOLLICLES OF *ANOLIS CAROLINENSIS*. *Gen. Comp. Endocrinol.* 22(4): 448-453, 2 figs. Apr. 1974. *WR 153: 91*
[Univ. Colo., Boulder 80302]

Kaufmann, Reinhard. WACHSTUMSRATEN IN GEFANGENSCHAFT GEHALTENER MEERESSCHILDKROETEN: II. [GROWTH RATES OF SEA TURTLES MAINTAINED IN CAPTIVITY: II.] *Mitt. Inst. Colombo-Aleman Invest. Cient. Punta de Beitn.* 6. p. 105-112, illus. 1972. [From Biol. Abstr. 57(7), 1974. In German with Spanish and English summ.] *WR 153: 91*
[Apartado Aereo 1016, Santa, Marta, Columbia] *"Caretta* spp., *Eretmochelys* spp., and *Chelonia* spp."

Keenlyne, K. D., and J. R. Beer. NOTE ON THE SIZE OF *SISTRURUS CATENATUS CATENATUS* AT BIRTH. *J. Herpetol.* 7(4): 381-382. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 91*
[Univ. Minn., St. Paul 55121]

Keenlyne, K. D., and J. R. Beer. FOOD HABITS OF *SISTRURUS CATENATUS CATENATUS*. *J. Herpetol.* 7(4): 382-384. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 91*
[Univ. Minn., St. Paul 55121]

Kratzer, Henri. BEOBACHTUNGEN UEBER DIE ZEITIGUNGSDAUER EINES EIGELEGES VON *VARANUS SALVATOR* (SAURIA, VARANIDAE). [OBSERVATION OF THE MATURATION PERIOD OF A CLUTCH OF *VARANUS SALVATOR* (SAURIA, VARANIDAE).] *Salamandra* 9(1): 27-33, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 92*
[Grosswiesenstr. 80, CH-8051 Zürich, Switzerland]

Kratzer, Henri. TERRARIEN-NACHZUCHT VON *DENDROASPIS ANGUSTICEPS* (SERPENTES, ELAPIDAE). [TERRARIUM REGENERATION OF *DENDROASPIS ANGUSTICEPS* (SERPENTES, ELAPIDAE).] *Salamandra* 9(1): 36-38, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 92*
[Grosswiesenstr. 80, CH-8051 Zürich, Switzerland]

Laerm, Joshua. A FUNCTIONAL ANALYSIS OF MORPHOLOGICAL VARIATION AND DIFFERENTIAL NICHE UTILIZATION IN BASILISK LIZARDS. *Ecology* 55(2): 404-411, 3 figs. Early Spring 1974. *WR 153: 92*
[Univ. Ill., Urbana 61801] *"Basiliscus plumifrons* and *B. vittatus."*--Courtesy/ Paul A. Stewart.

Lardie, Richard L. NOTES ON EGGS AND YOUNG OF *TRIONYX FEROX* (SCHNEIDER). *J. Herpetol.* 7(4): 377-378. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 92*
[1414 Parker St., Enid, Okla. 73701]

Lee, David S. THE POSSIBLE ROLE OF FIRE ON POPULATION DENSITY OF THE FLORIDA SCRUB LIZARD, *SCELOPORUS WOODI* STEJNEGER. *Bull. Md. Herpetol. Soc.* 10(1): 20-21, 1 fig. Mar. 1974. *WR 153: 92*
[Nat. Hist. Soc. Md., 2643 North Charles St., Baltimore]

Lee, David S., John B. Funderburg, and L. Richard Franz. GROWTH AND FEEDING BEHAVIOR IN THE ENDEMIC FLORIDA SCRUB LIZARD, *SCELOPORUS WOODI* STEJNEGER. *Bull. Md. Herpetol. Soc.* 10(1): 16-19, 1 fig. Mar. 1974. *WR 153: 92*
[Nat. Hist. Soc. Md., 2643 North Charles St., Baltimore]

Licht, Paul. RESPONSE OF *ANOLIS* LIZARDS TO FOOD SUPPLEMENTATION IN NATURE. *Copeia* 1974(1): 215-221. 28 Mar. 1974. *WR 153: 92*
[Univ. Calif., Berkeley 94720] *"Anolis cristatellus* and *A. stratulus."*

Lillywhite, Harvey B., and F. North. PERCHING BEHAVIOR OF *SCELOPORUS OCCIDENTALIS* IN RECENTLY BURNED CHAPARRAL. *Copeia* 1974(1): 256-257, 1 fig. 28 Mar. 1974. *WR 153: 92*
[Univ. Kans., Lawrence 66044]

Lotze, Hans Ulrich. DIE SCHLANGEN DER ERIMONISSIA IN DEN KYKLADEN (GRIECHENLAND). [THE SNAKES OF THE ERIMONISSIA ISLANDS IN THE CYCLADES (GREECE).] *Salamandra* 9(2): 58-70, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 92*
[54 Ave. des Communes Reunies, CH-1212 Grand-Lancy, Switzerland] *"Eryx jaculus, Vipera ammodytes, Elaphe quatuorlineata."*

Lucchino, Ronald V. BIOCHEMICAL COMPARISON OF TWO SIBLING SPECIES: *CNEMIDOPHORUS EXSANGUIS* AND *CNEMIDOPHORUS SONORAE* (SAURIA: TEIIDAE). *J. Herpetol.* 7(4): 379-380, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 92*
[Univ. N. Mex., Albuquerque 87131]

Martin, Dorothy R. DISTRIBUTION OF HELMINTH PARASITES IN TURTLES NATIVE TO SOUTHERN ILLINOIS. *Trans. Ill. State Acad. Sci.* 65(3/4): 61-67. 1972. [From Biol. Abstr. 57(10), 1974.] *WR 153: 92*
[Black Hawk Jr. Coll., Moline, Ill.]

Mautz, William J., and Ted J. Case. A DIURNAL ACTIVITY CYCLE IN THE GRANITE NIGHT LIZARD, *XANTUSIA HENSHAWI*. *Copeia* 1974(1): 243-251, 3 figs. 28 Mar. 1974. *WR 153: 93*
[Cornell Univ., Ithaca, N.Y. 14850]

McDonald, H. S. BRADYCARDIA DURING DEATH-FEIGNING OF *HETERODON PLATYRHINOS* LATREILLE (SERPENTES). *J. Herpetol.* 8(2): 157-164, 5 figs. Apr. 1974. *WR 153: 93*
[Stephen F. Austin State Univ., Nacogdoches, Tex. 75961]

McDowell, S. B. A CATALOGUE OF THE SNAKES OF NEW GUINEA AND THE SOLOMONS, WITH SPECIAL REFERENCE TO THOSE IN THE BERNICE P. BISHOP MUSEUM, PART I. SCOLECOPHIDIA. *J. Herpetol.* 8(1): 1-57, 20 figs. Jan. 1974. *WR 153: 93*
[Rutgers Univ., Newark, N. J. 07102]

McKinstry, Donald M., and Steven Felege. SNAKES OF NORTHWESTERN PENNSYLVANIA. *Bull. Md. Herpetol. Soc.* 10(1): 29-31. Mar. 1974. *WR 153: 93*
[Pa. State Univ., Behrend Coll., Erie 16510]

Mertens, Robert. DAS ALTER BEI DER GESCHLECHTSREIFE DER DOSENSCHILDKROETE *TERRAPENE C. CAROLINA*. [THE AGE AT SEXUAL MATURITY OF THE TURTLE *TERRAPENE C. CAROLINA*.] *Salamandra* 9(1): 34-35. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 93*
[Naturmus. Forsch. Senckenberg, 6000 Frankfurt/Main 1, West Germany]

Mertens, Robert. *PSAMMOPHIS ELEGANS*, EINE BEMERKENSWERTE "SANDRENN-NATTER" AUS WESTAFRIKA. [*PSAMMOPHIS ELEGANS*, A REMARKABLE VIPER FROM WESTERN AFRICA.] *Salamandra* 9(1): 18-21, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 93*
[Naturmus. Forsch. Senckenberg, 6000 Frankfurt/Main 1, West Germany]

Mertens, Robert. STUDIEN UEBER DIE REPTILIENFAUNA MADAGASKARS: VIII. BERMERKUNGEN UEBER EINIGE CHAMAELEONS VON MADAGASKAR. [STUDIES OF THE REPTILIAN FAUNA OF MADAGASCAR: VIII. OBSERVATIONS ON SEVERAL CHAMELEONS OF MADAGASCAR.] *Salamandra* 9(2): 54-57, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 93*
[Naturmus. Forsch. Senckenberg, 6000 Frankfurt/Main 1, West Germany]
"Chamaeleo paradalis, C. nasutus, C. parsonii, C. verrucosus, and *C. monoceras."*

Mertens, Robert. ZUR KENNTNIS DES IRANISCHEN WUESTENWARANS, *VARANUS GRISEUS*. [ON THE KNOWLEDGE OF THE IRANIAN DESERT MONITOR LIZARD, *VARANUS GRISEUS*.] *Bonn. Zool. Beitr.* 24(3): 233-236, illus. 1973. [From Biol. Abstr. 57(9), 1974. In German with English summ.] *WR 153: 93*
[Naturmus. Forsch. Senckenberg, 6000 Frankfurt/Main 1, West Germany]

Moehn, L. D. THE EFFECT OF QUALITY OF LIGHT ON AGONISTIC BEHAVIOR OF IGUANID AND AGAMID LIZARDS. *J. Herpetol.* 8(2): 175-183, 1 fig. Apr. 1974. *WR 153: 93*
[Ill. Coll., Jacksonville 62650] *"Dipsosaurus dorsalis, Crotaphytus collaris,* and *Agama agama."*

Montanucci, Richard R. CONVERGENCE, POLYMORPHISM OR INTROGRESSIVE HYBRIDIZATION? AN ANALYSIS OF INTERACTION BETWEEN *CROTAPHYTUS COLLARIS* AND *C. RETICULATUS* (SAURIA: IGUANIDAE). *Copeia* 1974(1): 87-101, 8 figs, 28 Mar. 1974. *WR 153: 93*
[St. Edward's Univ., Austin, Tex. 78704]

Mueller, Paul. MONOMORPHISMUS UND POLYMORPHISMUS ITALIENISCHER *CHALCIDES CHALCIDES* POPULATIONEN. [MONOMORPHISM AND POLYMORPHISM IN ITALIAN POPULATIONS OF *CHALCIDES CHALCIDES*.] *Salamandra* 9(1): 13-17, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 93*
[Univ. Saarlandes, 6600 Saarbrücken 11, West Germany]

Myer, James S., and Arthur P. Kowell. EFFECTS OF FEEDING SCHEDULE AND FOOD DEPRIVATION ON THE GROWTH OF NEONATAL GARTER SNAKES *(THAMNOPHIS SIRTALIS)*. *J. Herpetol.* 7(3): 225-229, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 94*
[Kent State Univ., Kent, Ohio 44240]

Nemuras, Kenneth T. THE BOG TURTLE: PROFILE OF AN ENDANGERED SPECIES. *Va. Wildl.* 35(6): 7-9, illus. June 1974. *WR 153: 94*
[Pasadena, Md.] *"Clemmys muhlenbergi."*

Otis, V. S. LEUCOCYTE AND ERYTHROCYTE DILUENT FOR REPTILIAN BLOOD CELL COUNTS. *Copeia* 1974(1): 252-254. 28 Mar. 1974. *WR 153: 94*
[New York Zool. Soc., Bronx Park, Bronx, N.Y. 10460]

Palacios, L., J. Planas, and J. Palaus. VALORES HEMATICOS EN VARIAS ESPECIES DE COLUBRIDOS (SERPENTES). [HEMATOLOGICAL PARAMETERS IN SEVERAL COLUBRID SNAKES.] *Bol. R. Soc. Esp. Hist. Nat. Secc. Biol.* 70(1/2): 137-151, illus. 1972. [From Biol. Abstr. 57(9), 1974. In Spanish with English summ.] *WR 153: 94*
[Univ. Barcelona, Barcelona, Spain] *"Malpolon monspessulanus, Macroprotodon cucullatus, Coronella girondica, Coluber hippocrepis,* and *Elaphe scalaris."*

Parker, W. S. HOME RANGE, GROWTH, AND POPULATION DENSITY OF *UTA STANSBURIANA* IN ARIZONA. *J. Herpetol.* 8(2): 135-139. Apr. 1974. *WR 153: 94*
[Univ. Utah, Salt Lake City 84112]

Patterson, Robert. THE OS TRANSILIENS IN FOUR SPECIES OF TORTOISES, GENUS *GOPHERUS*. *Bull. South. Calif. Acad. Sci.* 72(1): 51-52, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 94*
[Calif. State Univ., Fullerton 92634] *"Gopherus agassizi, G. polyphemus,* and *G. berlandieri."*

Peirce, M. A., and A. R. W. Castleman. AN INTRAERYTHROCYTIC PARASITE OF THE MOROCCAN TORTOISE. *J. Wildl. Dis.* 10(2): 139-142, 2 figs. Apr. 1974. *WR 153: 94*
[Min. Agric., Fisheries & Food, New Haw, Weybridge, Surrey, England] *"Testudo graeca."*

Penney, D. G. EFFECTS OF PROLONGED DIVING ANOXIA ON THE TURTLE, *PSEUDEMYS SCRIPTA ELEGANS*. *Comp. Biochem. Physiol. A Comp. Physiol.* 47(3): 933-941, 1 fig. Mar. 1974. *WR 153: 94*
[Univ. Ill., Chicago 60680]

Pentecost, E. D. BEHAVIOR OF *EUMECES LATICEPS* EXPOSED TO A THERMAL GRADIENT. *J. Herpetol.* 8(2): 169-173. Apr. 1974. *WR 153: 94*
[Univ. Wis., Stevens Point 55481]

Perret, Jean-Luc. CONTRIBUTION A L'ETUDE DES *PANASPIS* (REPTILIA, SCINCIDAE) D'AFRIQUE OCCIDENTALE AVEC LA DESCRIPTION DE DEUX ESPECES NOUVELLES. [CONTRIBUTION TO THE STUDY OF THE *PANASPIS* (REPTILIA, SCINCIDAE) OF WESTERN AFRICA WITH A DESCRIPTION OF TWO NEW SPECIES.] *Rev. Suisse Zool.* 80(2): 595-630, illus. 1973. [From Biol. Abstr. 57(10), 1974. In French with German and English summ.] *WR 153: 94*
[Mus. Hist. Nat., CH-1211 Geneva 6, Switzerland]

Porter, Richard H., and James A. Czaplicki. SHEDDING FACILITATES EXPOSURE LEARNING IN THE GARTER SNAKE *(THAMNOPHIS SIRTALIS)*. *Physiol. Behav.* 12(1): 75-77. 1974. [From Biol. Abstr. 57(12), 1974.] *WR 153: 94*
[George Peabody Coll. Teach., Nashville, Tenn. 37203]

Progscha, Karl-Heinz. AUSSERGEWOEHNLICHE HEILUNG EINER VERLETZUNG BEI EINEM JUNGEN *CORALLUS ENYDRIS* (SERPENTES, BOIDAE). [UNUSUAL HEALING OF AN INJURY IN A YOUNG *CORALLUS ENYDRIS* (SERPENTES, BOIDAE).] *Salamandra* 8(3/4): 176. 1972. [From Biol. Abstr. 57(7), 1974. In German with English summ.] *WR 153: 95*
[Kirchturmstr. 9, 5 Cologne 80, West Germany]

Punzo, F. COMPARATIVE ANALYSIS OF THE FEEDING HABITS OF TWO SPECIES OF ARIZONA BLIND SNAKES, *LEPTOTYPHLOPS H. HUMILIS* AND *LEPTOTYPHLOPS D. DULCIS*. *J. Herpetol.* 8(2): 153-156. Apr. 1974. *WR 153: 95*
[Iowa State Univ., Ames 50010]

Quay, W. B. NOTES ON THE WINTER REPRODUCTIVE BIOLOGY OF THE GECKO, *PEROPUS MUTILATUS*, ON KAUAI, HAWAIIAN ISLANDS. *Copeia* 1974(1): 254. 28 Mar. 1974. *WR 153: 95*
[Univ. Wis., Madison 53706]

Rao, K. L., and B. K. Patnaik. CORRELATION BETWEEN BODYWEIGHT, SNOUT TO VENT LENGTH, TAILGIRTH AND METABOLIC RATE IN MALE GARDEN LIZARDS *(CALOTES VERSICOLOR)*. *Exp. Gerontol.* 8(3): 173-176, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 95*
[B. J. B. Coll., Bhubaneswar, India]

Rao, M. V. Subba, and B. S. Rajabai. INFLUENCE OF SIZE, SEX, TEMPERATURE, SEASON AND CLIMATIC CONDITIONS ON OXYGEN CONSUMPTION IN ACCLIMATED GROUND DWELLING AGAMID LIZARD, *SITANA PONTICERIANA*, CUVIER. *J. Anim. Morphol. Physiol.* 19(2): 149-165. 1972. [From Biol. Abstr. 57(11), 1974.] *WR 153: 95*
[Utkal Univ., Cuttach-3, Orissa, India]

Raun, G. G. THE SCARLET SNAKE *(COMOPHORA COCCINEA)* IN TEXAS. *J. Herpetol.* 8(2): 186-187. Apr. 1974. *WR 153: 95*
[Angelo State Univ., San Angelo, Tex. 76901]

Raw, L. R. G. A REVIEW OF THE DUSKY-BELLIED WATER SNAKE, *LYCODONOMORPHUS LAEVISSIMUS* (GUNTHER), WITH DESCRIPTIONS OF TWO NEW SUBSPECIES. *Ann. Natal Mus.* 21(3): 713-718, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 95*
[21 Woodlands Ave., Hillary, Durban, South Africa]

Rigley, Louis. AGONISTIC BEHAVIOR OF THE EASTERN MUD TURTLE *KINOSTERNON SUBRUBRUM SUBRUBRUM*. *Bull. Md. Herpetol. Soc.* 10(1): 22-23. Mar. 1974. *WR 153: 95*
[Charles County Community Coll., LaPlata, Md. 20646]

Romano, S. A. R. W., and A. R. Hoge. NOTA SOBRE *XENODON* E *OPHIS* (SERPENTES, COLUBRIDAE). [NOTES ON *XENODON* AND *OPHIS* (SERPENTES, COLUBRIDAE).] *Mem. Inst. Butantan* (São Paulo). 36: 209-214, illus. 1972. [From Biol. Abstr. 57(7), 1974. In Portuguese with English summ.] *WR 153: 95*
[C.P. 65, São Paulo, Brazil] "Taxonomy of *Xenodon merremii*."

Sachsse, Walter. *PYXIDEA MOUHOTII*, EINE LANDBEWOHNENDE EMYDIDE SUEDOSTASIENS (TESTUDINES). [*PYXIDEA MOUHOTII*, A LAND-DWELLING EMYDID FROM SOUTHEAST ASIA (TESTUDINES).] *Salamandra* 9(2): 49-53, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 95*
[Eichendorffstr. 27, 65 Mainz, West Germany]

Schwartz, Albert. A NEW SPECIES OF MONTANE *ANOLIS* (SAURIA, IGUANIDAE) FROM HISPANIOLA. *Ann. Carnegie Mus.* 44(12): 183-196, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 95*
[Miami-Dade Community Coll., Miami, Fla. 33167] *"Anolis fowleri."*

Scudday, James F. A NEW SPECIES OF LIZARD OF THE *CNEMIDOPHORUS TESSELATUS* GROUP FROM TEXAS. *J. Herpetol.* 7(4): 363-371, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 96*
[Sul Ross State Univ., Alpine, Tex. 78930] *"Cnemidophorus dixoni."*

Seidel, Michael Edward. OSMOREGULATORY ADAPTATIONS OF THE SPINY SOFTSHELL TURTLE, *TRIONYX SPINIFERUS*, FROM BRACKISH AND FRESH WATERS. *Ph.D. thesis, Univ. N. Mex.* 92 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 96*

Thomas, M. E. BATS AS A FOOD SOURCE FOR *BOA CONSTRICTOR*. *J. Herpetol.* 8(2): 188. Apr. 1974. *WR 153: 96*
[Int. Cent. for Med. Res., Apartado Aereo 5390, Cali, Colombia]

Tu, Anthony T., and John M. Stringer. THREE SPECIES OF SEA SNAKES NOT PREVIOUSLY REPORTED IN THE STRAIT OF FORMOSA. *J. Herpetol.* 7(4): 384-386. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 96*
[Colo. State Univ., Fort Collins 80521] *"Acalytophis peronii, Kerilia jerdonii siamensis,* and *Praescutata viperina."*

Uzzell, Thomas. A REVISION OF LIZARDS OF THE GENUS *PRIONODACTYLUS*, WITH A NEW GENUS FOR *P. LEUCOSTICTUS* AND NOTES ON THE GENUS *EUSPONDYLUS* (SAURIA, TEIIDAE). *Postilla* 159. p. 1-67, illus. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 96*
[Acad. Nat. Sci., 19th and Parkway, Philadelphia, Pa. 19103]

Villa, Kaime. A SNAKE IN THE DIET OF A KINOSTERNID TURTLE. *J. Herpetol.* 7(4): 380-381. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 96*
[Cornell Univ., Ithaca, N.Y. 14850] *"Kinosternon leucostomum* and *Tretanorhinus nigroluteus nigroluteus."*

Vitt, L. J. REPRODUCTIVE EFFORT AND ENERGY COMPARISONS OF ADULTS, EGGS AND NEONATES OF *GERRHONOTUS COERULEUS PRINCIPIS*. *J. Herpetol.* 8(2): 165-168, 2 figs. Apr. 1974. *WR 153: 96*
[Ariz. State Univ., Tempe 85281]

Vitt, Laurie J. BODY TEMPERATURES OF HIGH LATITUDE REPTILES. *Copeia* 1974(1): 255-256, 1 fig. 28 Mar. 1974. *WR 153: 96*
[Ariz. State Univ., Tempe 85281] "Information on the following six Washington state reptiles: *Gerrhonotus coeruleus principis, Sceloporus o. occidentalis, Charina b. bottae, Coluber constrictor mormon, Thamnophis ordinoides,* and *Crotalus viridis oreganus.*"

Western, David. THE DISTRIBUTION, DENSITY AND BIOMASS DENSITY OF LIZARDS IN A SEMI-ARID ENVIRONMENT OF NORTHERN KENYA. *E. Afr. Wildl. J.* 12(1): 49-62, 4 figs. Mar. 1974. *WR 153: 96*
[Univ. Nairobi, Nairobi, Kenya] Data of 13 spp.

Wever, Ernest Glen, and Carl Gans. THE EAR IN *AMPHISBAENIA* (REPTILIA); FURTHER ANATOMICAL OBSERVATIONS. *J. Zool. Proc. Zool. Soc. Lond.* 171(2): 189-206, illus. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 96*
[Princeton Univ., Princeton, N.J.]

White, Marshall, and James A. Kolb. A PRELIMINARY STUDY OF *THAMNOPHIS* NEAR SAGEHEN CREEK, CALIFORNIA. *Copeia* 1974(1): 126-136, 3 figs. 28 Mar. 1974. *WR 153: 96*
[Univ. Calif., Berkeley 94720] *"Thamnophis sirtalis* and *T. elegans."*

Worthington, Richard D., and Edward R. Arvizo. DENSITY, GROWTH, AND HOME RANGE OF THE LIZARD *UTA STANSBURIANA STEJNEGERI* IN SOUTHERN DONA ANA COUNTY, NEW MEXICO. *Great Basin Nat.* 33(2): 124-128. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 96*
[Univ. Tex., El Paso 79968]

AMPHIBIANS

Alfs, Bernd, and Hans Schneider. VERGLEICHEND-ANATOMISCHE UNTERSUCHUNGEN AM LABYRINTH ZENTRALEUROPAEISCHER FROSCHLURCH-ARTEN (ANURA). [COMPARATIVE ANATOMICAL INVESTIGATIONS OF THE LABYRINTH OF CENTRAL EUROPEAN ANURA.] *Z. Morphol. Tiere* 76(2): 129-143, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 97*
[Univ. Poppelsdorfer Sch., D-5300 Bonn 1, West Germany] *"Bombina bombina, Bufo bufo, Hyla arborea,* and *Rana ridibunda."*

Amiet, J.-L. NOTES FAUNISTIQUES, ETHOLOGIQUES ET ECOLOGIQUES SUR QUELQUES AMPHIBIENS ANOURES DU CAMEROUN. [FAUNISTIC, ETHOLOGICAL AND ECOLOGICAL NOTES ON SOME AMPHIBIANS OF THE ANURA SUBCLASS IN THE CAMEROON.] *Ann. Fac. Sci. Cameroun* 13. p. 135-161, illus. 1973. [From Biol. Abstr. 57(11), 1974. In French.] *WR 153: 97*
[Univ. Fed. Cameroun, Yaounde, Cameroon]

Amiet, J.-L., and A. Schiotz. VOIX D'AMPHIBIENS CAMEROUNAIS: I. ASTYLOSTERNINAE: GENRES *LEPTODACTYLODON, SCOTOBLEPS* ET *NYCTIBATES.* [THE VOICE OF AMPHIBIANS FROM CAMEROON: I. ASTYLOSTERNINAE: GENERA *LEPTODACTYLODON, SCOTOBLEPS,* AND *NYCTIBATES.*] *Ann. Fac. Sci. Cameroun* 12. p. 79-99, illus. 1972. [From Biol. Abstr. 57(11), 1974. In French.] *WR 153: 97*
[Univ. Fed. Cameroun, Yaounde, Cameroon] Comments on the vocal behavior acquired by observation in the field are advanced for species *Leptodactylodon ornatus* Amiet, *L. ovatus, L. albiventris, polyacanthus* Amiet, *L. bicolor* Amiet, *L. mettensi* Perret, *L. erythrogaster* Amiet, *L. perreti* Amiet, *Scotobleps gabonicus* Boulenger and *Nyctibates corrugatus* Boulenger.

Anderson, James D., and Gerald K. Williamson. THE BREEDING SEASON OF *AMBYSTOMA OPACUM* IN THE NORTHERN AND SOUTHERN PARTS OF ITS RANGE. *J. Herpetol.* 7(3): 320-321. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 97*
[Rutgers Univ., Newark, N.J. 07102]

Baldwin, Roger A. THE WATER BALANCE RESPONSE OF THE PELVIC "PATCH" OF *BUFO PUNCTATUS* AND *BUFO BOREAS. Comp. Biochem. Physiol. A Comp. Physiol.* 47(4): 1285-1295. 1 Apr. 1974. *WR 153: 97*
[Sepulveda Veterans Administration Hospital, Sepulveda, Calif. 91343]

Bell, Graham. THE REDUCTION OF MORPHOLOGICAL VARIATION IN NATURAL POPULATIONS OF SMOOTH NEWT LARVAE. *J. Anim. Ecol.* 43(1): 115-128, 10 figs. Feb. 1974. *WR 153: 97*
[Animal Ecol. Res. Group, South Parks Road, Oxford, England]

Brown, Richard L. DIETS AND HABITAT PREFERENCES OF SELECTED ANURANS IN SOUTHEAST ARKANSAS. *Am. Midl. Nat.* 91(2): 468-473. Apr. 1974. *WR 153: 97*
[Univ. Ark., Fayetteville 72701]

Bruggers, Richard L. FOOD HABITS OF BULLFROGS IN NORTHWEST OHIO. *Ohio J. Sci.* 73(3): 185-188. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 97*
[Bowling Green State Univ., Bowling Green, Ohio 43403]

Burton, Thomas Maxie. THE ROLE OF SALAMANDERS IN ECOSYSTEM STRUCTURE AND FUNCTION IN THE HUBBARD BROOK EXPERIMENTAL FOREST IN NEW HAMPSHIRE. *Ph.D. thesis, Cornell Univ.* 222 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974.] *WR 153: 97*
"Plethodon c. cinereus, Desmognathus f. fuscus, Eurycea b. bislineata, Gyrinophilus p. porphyriticus, and *Notopthalmus v. viridescens."*

Bury, R. Bruce, and Michael Martin. COMPARATIVE STUDIES ON THE DISTRIBUTION AND FOODS OF PLETHODONTID SALAMANDERS IN THE REDWOOD REGION OF NORTHERN CALIFORNIA. *J. Herpetol.* 7(4): 331-335. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 97*
[Natl. Mus. Nat. Hist., Washington, D.C. 20560] *"Aneides lugubris, A. ferreus, Ensatina eschscholtzi,* and *Batrachoseps attenuatus."*

Caldwell, Ronald S., and Wayne C. Houtcooper. FOOD HABITS OF LARVAL *EURYCEA BISLINEATA*. *J. Herpetol.* 7(4): 386-388. 1973. [From Biol. Abstr. 57(11), 1974.] *WR 153: 98*
[Dep. Biol., Memphis, Tenn. 38152]

Castroviejo, Javier, and Alfredo Salvador. NUEVOS DATOS SOBRE LA DISTRIBUCION DE *TRITURUS ALPESTRIS* EN ESPANA. [NEW DATA ON THE DISTRIBUTION OF THE ALPINE NEWT, *TRITURUS ALPESTRIS*, IN SPAIN.] *Bol. R. Soc. Esp. Hist. Nat. Secc. Biol.* 69(3): 189-201, illus. 1971. [From Biol. Abstr. 57(10), 1974. In Spanish with English summ.] *WR 153: 98*
[Inst. Zool. "Jose de Acosta," Madrid 6, Spain]

Christensen, Christian U. ADAPTATIONS IN THE WATER ECONOMY OF SOME ANURAN AMPHIBIA. *Comp. Biochem. Physiol. A Comp. Physiol.* 47(3): 1035-1049, 9 figs. Mar. 1974. *WR 153: 98*
[August Krogh Inst., Universitetsparken 13, DK 2100 Copenhagen, Denmark]
"Bufo bufo, Rana esculenta, R. arvalis, R. temporaria, and *Xenopus laevis."*

Cook, M. L., and B. C. Brown. VARIATION IN THE GENUS *DESMOGNATHUS* (AMPHIBIA: PLETHODONTIDAE) IN THE WESTERN LIMITS OF ITS RANGE. *J. Herpetol.* 8(1): 93-105, 6 figs. Jan. 1974. *WR 153: 98*
[Baylor Univ., Waco, Tex. 76706] In Texas.

Dodd, C. K., Jr., J. A. Johnson, and E. D. Brodie, Jr. NOXIOUS SKIN SECRETIONS OF AN EASTERN SMALL *PLETHODON, P. NETTINGI HUBRICHTI*. *J. Herpetol.* 8(1): 89-92. Jan. 1974. *WR 153: 98*
[Clemson Univ., Clemson, S.C. 29631]

Dole, Jim W., and Pedro Durant. MOVEMENTS AND SEASONAL ACTIVITY OF *ATELOPUS OXYRHYNCHUS* (ANURA: ATELOPODIDAE) IN A VENEZUELAN CLOUD FOREST. *Copeia* 1974(1): 230-235, 2 figs. 28 Mar. 1974. *WR 153: 98*
[Calif. State Univ., Northridge 91324]

El Mofty, M. M. ECDYSTERONE INDUCED SEXUAL REPRODUCTION IN *OPALINA SUDAFRICANA* PARASITIC IN *BUFO REGULARIS*. *Int. J. Parasitol.* 3(6): 863-868. 1973. [From Biol. Abstr. 57(12), 1974.] *WR 153: 98*
[Alexandria Univ., Alexandria, Egypt]

Farrar, Eugenia S., and B. E. Frye. COMPARISON OF BLOOD GLUCOSE AND LIVER GLYCOGEN OF LARVAL AND ADULT FROGS *(RANA PIPIENS)*. *Gen. Comp. Endocrinol.* 21(3): 513-516, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 98*
[Rte. 2, Ames, Iowa 50010]

Fite, Katherine V. THE VISUAL FIELDS OF THE FROG AND TOAD: A COMPARATIVE STUDY. *Behav. Biol.* 9(6): 707-713, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 98*
[Univ. Mass., Amherst 01002] Perimetric mappings and quantitative behavioral observations of orienting and feeding responses were made for 4 spp. of North American frog *(Rana clamitans, R. catesbeiana, R. pipiens, R. palustris)* and 3 spp. of toad *(Bufo americanus, B. terrestris, B. marinus)*.

Gaudin, A. J. AN OSTEOLOGICAL ANALYSIS OF HOLARCTIC TREE FROGS, FAMILY HYLIDAE. *J. Herpetol.* 8(2): 141-152, 10 figs. Apr. 1974. *WR 153: 98*
[Calif. State Univ., Northridge 91324]

Gerhardt, H. Carl. BEHAVIORAL ISOLATION OF THE TREE FROGS, *HYLA CINEREA* AND *HYLA ANDERSONII*. *Am. Midl. Nat.* 91(2): 424-433, 3 figs. Apr. 1974. *WR 153: 98*
[Univ. Mo., Columbia 65201]

Gerhardt, H. Carl. THE VOCALIZATIONS OF SOME HYBRID TREEFROGS: ACOUSTIC AND BEHAVIORAL ANALYSES. *Behaviour* 49(1-2): 130-151, 6 figs. 1974. In English with French summ. *WR 153: 99*
[Univ. Mo., Columbia 65201] *"Hyla avivoca H. chrysoscelis, H. femoralis H. chrysoscelis,* and *H. cinerea H. gratiosa."*

Gibbons, J. Whitfield, and David H. Bennett. DETERMINATION OF ANURAN TERRESTRIAL ACTIVITY PATTERNS BY A DRIFT FENCE METHOD. *Copeia* 1974(1): 236-243, 3 figs. 28 Mar. 1974. *WR 153: 99*
[Savannah River Ecol. Lab., Drawer E, Aiken, S.C. 29801] *"Rana pipiens, Bufo terrestris,* and *Scaphiopus holbrooki."*

Greding, E. J., Jr. HYBRID INCOMPATIBILITY BETWEEN *RANA MACROGLOSSA* AND SYMPATRIC *RANA PIPIENS*. *J. Herpetol.* 8(2): 189. Apr. 1974. *WR 153: 99*
[P.O. Box 1379, San Juan, Tex. 78589]

Guttman, Sheldon I. ANOXIA TOLERANCE IN TWO SPECIES OF TOADS, *BUFO VALLICEPS* AND *BUFO WOODHOUSEI*. *Comp. Biochem. Physiol. A Comp. Physiol.* 47(3): 867-870. Mar. 1974. *WR 153: 99*
[Miami Univ., Oxford, Ohio 45056]

Guttman, Sheldon I., and William Creasey. STAINING AS A TECHNIQUE FOR MARKING TADPOLES. *J. Herpetol.* 7(4): 388. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 99*
[Miami Univ., Oxford, Ohio 45056] *"Rana clamitans."*

Haertel, John D., Alfred Owczarzak, and Robert M. Storm. A COMPARATIVE STUDY OF THE CHROMOSOMES FROM FIVE SPECIES OF THE GENUS *RANA* (AMPHIBIA: SALIENTIA). *Copeia* 1974(1): 109-114, 2 figs. 28 Mar. 1974. *WR 153: 99*
[S. Dak. State Univ., Brookings 57006]

Healy, William R. POPULATION CONSEQUENCES OF ALTERNATIVE LIFE HISTORIES IN *NOTOPHTHALMUS V. VIRIDESCENS*. *Copeia* 1974(1): 221-229, 7 figs. 28 Mar. 1974. *WR 153: 99*
[Coll. Holy Cross, Worcester, Mass. 01610]

Heredia-Cano, José Fabio. BIOLOGICAL SIGNIFICANCE OF THE INHIBITORY EFFECT OF *BUFO BLOMBERGI* SEMEN ON THE DEVELOPMENT OF EGGS OF OTHER *BUFO* SPECIES. *Ph.D. thesis, Univ. Tex.* (Austin) 129 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 99*

Heyer, W. Ronald. ECOLOGICAL INTERACTIONS OF FROG LARVAE AT A SEASONAL TROPICAL LOCATION IN THAILAND. *J. Herpetol.* 7(4): 337-361, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 99*
[Natl. Mus. Nat. Hist., Washington, D.C. 20560]

Houston, W. W. K. THE FOOD OF THE COMMON FROG, *RANA TEMPORARIA*, ON HIGH MOORLAND IN NORTHERN ENGLAND. *J. Zool. Proc. Zool. Soc. Lond.* 171(2): 153-165, illus. 1973. [[From Biol. Abstr. 57(11), 1974.] *WR 153: 99*
[Univ. Durham, Durham, England]

Jenssen, Thomas A. SEASONAL ORGAN WEIGHTS OF THE GREEN FROG, *RANA CLAMITANS* (ANURA, RANIDAE), UNDER NATURAL CONDITIONS. *Trans. Ill. State Acad. Sci.* 65(3/4): 15-24, illus. 1972. [From Biol. Abstr. 57(9), 1974.] *WR 153: 99*
[Southern Ill. Univ., Carbondale]

Kabisch, Klaus, and Wolf-Eberhard Engelmann. DISK-ELEKTROPHORETISCHE UNTERSUCHUNGEN DER SERUMPROTEINE VON KROETENBASTARDEN *(BUFO VIRIDIS* LAURENTI FEMALE X *BUFO CALAMITA* LAURENTI MALE*)*. (DISC-ELECTROPHORETIC INVESTIGATIONS OF THE SERUM PROTEINS OF HYBRID TOADS *BUFO VIRIDIS* LAURENTI FEMALES X *BUFO CALAMITA* LAURENTI MALES.] *Zool. Anz.* 190(1/2): 17-21, illus. 1973. [From Biol. Abstr. 57(8), 1974. In German.] *WR 153: 100*
[Karl-Marx Univ., DDR-701 Leipzig, East Germany]

Kolson, Richard Arthur. BEHAVIOR OF THE BULLFROG *(RANA CATESBEIANA)* WITH SPECIAL EMPHASIS ON VOCALIZATION. *Ph.D. thesis, Ohio State Univ.* 191 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 100*

Lasansky, A. ORGANIZATION OF THE OUTER SYNAPTIC LAYER IN THE RETINA OF THE LARVAL TIGER SALAMANDER. *Philos. Trans. Roy. Soc. Lond. Ser. B Biol. Sci.* 265(872): 471-489, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 100*
[Natl. Inst. Neurol. Dis. Stroke, Bethesda, Md. 20014]

Laurent, R. F. COMPORTAMIENTO TERRITORIAL EN *PHYLLOMEDUSA HYPOCHONDRIALIS.* [TERRITORIAL BEHAVIOR IN *PHYLLOMEDUSA HYPOCHONDRIALIS.*] *Acta Zool. Lilloana* 26(22): 315-316. 1973. [From Biol. Abstr. 57(12), 1974. In Spanish with English summ.] *WR 153: 100*
[Univ. Nac. Tucuman, Tucuman, Argentina]

Laurent, R. F. VARIACION GEOGRAFICA DE *MELANOPHRYNISCUS RUBRIVENTRIS* (VELLARD). [GEOGRAPHICAL VARIATION OF *MELANOPHRYNISCUS RUBRIVENTRIS* (VELLARD).] *Acta Zool. Lilloana* 26(23): 319-336, illus. 1973. [From Biol. Abstr. 57(12), 1974. In Spanish with English summ.] *WR 153: 100*
[Univ. Nac. Tucuman, Tucuman, Argentina]

Licht, Lawrence E. BEHAVIOR AND SOUND PRODUCTION BY THE NORTHWESTERN SALAMANDER *AMBYSTOMA GRACILE. Can. J. Zool.* 51(10): 1055-1056, illus. 1973. [From Biol. Abstr. 57(10), 1974.] *WR 153: 100*
[York Univ., Downsview, Toronto, Ontario, Canada]

Liem, David S. S. THE FROGS AND TOADS OF TJIBODAS NATIONAL PARK, MT. GEDE, JAVA, INDONESIA. *Philipp. J. Sci.* 100(2): 131-161, illus. 1971. [From Biol. Abstr. 57(11), 1974.] *WR 153: 100*
[Dep. Agric. Stock & Fish., Port Moresby, Papua New Guinea]

Liem, David S. A NEW GENUS OF FROG OF THE FAMILY LEPTODACTYLIDAE FROM SE. QUEENSLAND, AUSTRALIA. *Mem. Queensl. Mus.* 16(3): 459-470, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 100*
[Dep. Agric. Stock & Fish., Port Moresby, Papua New Guinea] *"Rheobatrachus silus."*

Liem, David S., and William Hosmer. FROGS OF THE GENUS *TAUDACTYLUS* WITH DESCRIPTIONS OF TWO NEW SPECIES (ANURA: LEPTODACTYLIDAE). *Mem. Queensl. Mus.* 16(3): 435-458, illus. 1973. [From Biol. Abstr. 57(9), 1974.] *WR 153: 100*
[Dep. Agric. Stock & Fish., Port Moresby, Papua New Guinea] *"Taudactylus diurnus, T. acutirostris, T. eungellensis,* and *T. rheophilus."*

Lillywhite, Harvey B., and Paul Licht. MOVEMENT OF WATER OVER TOAD SKIN: FUNCTIONAL ROLE OF EPIDERMAL SCULPTURING. *Copeia* 1974(1): 165-171, 3 figs. 28 Mar. 1974. *WR 153: 100*
[Univ. Kans., Lawrence 66044]

Littlejohn, M. J., and G. F. Watson. MATING CALL DISCRIMINATION AND PHONOTAXIS BY FEMALES OF THE *CRINIA LAEVIS* COMPLEX (ANURA: LEPTODACTYLIDAE). *Copeia* 1974(1): 171-175, 2 figs. 28 Mar. 1974. *WR 153: 100*
[Univ. Melbourne, Parkville, Victoria, Australia 3052] *"Crinia laevis* and *C. victoriana."*

Lynch, J. D. A NEW SPECIES OF LEPTODACTYLID FROG *(ISCHNOCNEMA)* FROM THE CORDILLERA DEL CONDOR IN ECUADOR. *J. Herpetol.* 8(1): 85-87, 2 figs. Jan. 1974. *WR 153: 101*
[Univ. Nebr., Lincoln 68508]

Mills, John Wesley. RESPONSE OF THE TOAD *BUFO MARINUS* TO OSMOTIC STRESS: ADAPTATIONS OF THE BODY FLUIDS AND MODIFICATIONS IN ULTRASTRUCTURE OF THE URINARY BLADDER. *Ph.D. thesis, Brown Univ.* 107 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974.] *WR 153: 101*

Pasanen, Seppo, and Pentti Koskela. SEASONAL CHANGES IN CALCIUM, MAGNESIUM, COPPER AND ZINC CONTENT IN THE LIVER OF THE COMMON FROG, *RANA TEMPORARIA* L. *Comp. Biochem. Physiol. A Comp. Physiol.* 48(1): 27-36, 1 fig. May 1974. *WR 153: 101*
[Univ. Oulu, Oulu, Finland]

Pillai, R. S., and S. K. Chanda. *PHLAUTUS SHILLONGENSIS*, A NEW FROG (RANIDAE) FROM MEGHALAYA, INDIA. *Proc. Indian Acad. Sci. Sect. B* 78(1): 30-36, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 101*
[Zool. Surv. India, Risa Colony, Shillong-3, Assam, India]

Platz, James Ernest. ELECTROPHORETIC AND MORPHOLOGICAL VARIATION OF LEOPARD FROGS IN ARIZONA. *Ph.D. thesis, Ariz. State Univ.* 75 p. 1974. [From Diss. Abstr. Int. B Sci. Eng. 34(11), 1974.] *WR 153: 101*
"Rana pipiens."

Reichel, Patricia. THE ONTOGENY OF THE OPERCULAR INTEGUMENT IN *RANA PIPIENS*. *Ph.D. thesis, Univ. Pa.* 114 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(9), 1974.] *WR 153: 101*

Roth, Jan J. VASCULAR SUPPLY TO THE VENTRAL PELVIC REGION OF ANURANS AS RELATED TO WATER BALANCE. *J. Morphol.* 140(4): 443-460, illus. 1973. [From Biol. Abstr. 57(8), 1974.] *WR 153: 101*
[Univ. Colo., Boulder 80302]

Shoop, C. Robert. YEARLY VARIATION IN LARVAL SURVIVAL OF *AMBYSTOMA MACULATUM*. *Ecology* 55(2): 440-444, 4 figs. Early Spring 1974. *WR 153: 101*
[Univ. R. I., Kingston 02881] Courtesy/ Paul A. Stewart.

Sit, K. H., and R. Kanagasuntheram. SOME OBSERVATIONS ON THE DEVELOPMENT OF THE COMMON TOAD *(BUFO MELANOSTICTUS)* UNDER LABORATORY CONDITIONS. *Malay. Nat. J.* 26(1/2): 14-18, illus. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 101*
[Univ. Singapore, Singapore 3, Singapore]

Steiner, Hans M. BEITRAEGE ZUR KENNTNIS VON VERBREITUNG, OEKOLOGIE UND BIONOMIE VON *BATRACHUPERUS PERSICUS* (CAUDATA, HYNOBIIDAE). [CONTRIBUTIONS TO THE KNOWLEDGE OF THE DISTRIBUTION, ECOLOGY AND BIONOMY OF *BATRACHUPERUS PERISCUS* (CAUDATA, HYNOBIIDAE).] *Salamandra* 9(11): 1-6, illus. 1973. [From Biol. Abstr. 57(12), 1974. In German with English summ.] *WR 153: 101*
[Hochsch. Bodenkult., A-1180 Vienna, Austria]

Tyler, Michael J. ENDOCHONDRAL OSSIFICATION OF THE HYOID PLATE IN AUSTRALO-PAPUAN HYLID FROGS. *Zool. Anz.* 189(5/6): 331-336, illus. 1972. [From Biol. Abstr. 57(10), 1974.] *WR 153: 101*
[S. Aust. Mus., Adelaide, Australia] *"Litoria eucnemis, L. maculata, L. lesueuri,* and *Nyctimystes tympanocryptis."*

Van Gelder, J. J. A QUANTITATIVE APPROACH TO THE MORTALITY RESULTING FROM TRAFFIC IN A POPULATION OF *BUFO BUFO* L. *Oecologia* (Berlin): 13(1): 93-95. 1973. [From Biol. Abstr. 57(7), 1974.] *WR 153: 102*
[Catholic Univ., Toernooiveld, Nijmegen, Netherlands]

Williams, Patrick Kelley. SEASONAL MOVEMENTS AND POPULATION DYNAMICS OF FOUR SYMPATRIC MOLE SALAMANDERS, GENUS *AMBYSTOMA*. *Ph.D. thesis, Ind. Univ.* 57 p. 1973. [From Diss. Abstr. Int. B Sci. Eng. 34(10), 1974.] *WR 153: 102*
"Ambystoma jeffersonianum, A. texanum, A. maculatum, and *A. opacum."*

Wilson, Don E., and Ronald H. Pine. BAITING FOR TOADS. *Copeia* 1974(1): 252. 28 Mar. 1974. *WR 153: 102*
[Natl. Mus. Nat. Hist., Washington, D.C. 20560] *"Bufo typhonius."*

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